

# Calcitonin Gene Related Peptide (CGRP) Recombinant Protein | CGRP recombinant protein

Recombinant Calcitonin Gene Related Peptide (CGRP)

|                               |                       |                                               |
|-------------------------------|-----------------------|-----------------------------------------------|
| CATALOG #<br><b>AAA133878</b> | HOST<br><b>E.coli</b> | APPLICATIONS<br><b>Western Blot, SDS-Page</b> |
|-------------------------------|-----------------------|-----------------------------------------------|

## PRODUCT SYNONYMS

Calcitonin Gene Related Peptide (CGRP); Recombinant Calcitonin Gene Related Peptide (CGRP); CGRP recombinant protein

## PRODUCT SPECIFICATIONS

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                 | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Purity/Purification                                  | > 95%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Form/Format                                          | Freeze-dried powder; PBS, pH7.4, containing 0.01% Sarcosyl, 5% Trehalose.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Concentration                                        | Original Concentration: 600ug/mL (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Applicable Applications for CGRP recombinant protein | WB (Western Blot), SDS-PAGE, Immunogen, Positive Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Source                                               | Prokaryotic expression                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Residues                                             | Met1~Ala127                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Tags                                                 | N-terminal His Tag                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Subcellular Location                                 | Secreted                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Predicted isoelectric point                          | 9.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Phenomenon explanation                               | <p>The possible reasons that the actual band size differs from the predicted are as follows:</p> <ol style="list-style-type: none"> <li>1.Splice variants: Alternative splicing may create different sized proteins from the same gene.</li> <li>2. Relative charge: The composition of amino acids may affects the charge of the protein.</li> <li>3. Post-translational modification: Phosphorylation, glycosylation, methylation etc.</li> <li>4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form.</li> <li>5. Polymerization of the target protein: Dimerization, multimerization etc.</li> </ol> |
| Usage                                                | Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Preparation and Storage                              | <p><b>Storage:</b></p> <p>Avoid repeated freeze/thaw cycles.<br/>Store at 2-8 degree C for one month.<br/>Aliquot and store at -80 degree C for 12 months.</p> <p><b>Stability Test:</b></p> <p>The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.</p>                                                                                                                           |

IMAGES

Sequence



SDS-PAGE



Sequence



NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                    |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 9945304                                                                                                            |
| NCBI GeneID                      | 797                                                                                                                |
| NCBI Accession #                 | NP_000719.1                                                                                                        |
| NCBI GenBank Nucleotide #        | NM_000728.3                                                                                                        |
| UniProt Accession #              | P10092; Q569I0; Q9UCN9; A8K573; D3DQX4                                                                             |
| Molecular Weight                 | Predicted Molecular Mass: 15.0kDa<br>Accurate Molecular Mass: 19kDa as determined by SDS-PAGE reducing conditions. |
| NCBI Official Full Name          | calcitonin gene-related peptide 2                                                                                  |
| NCBI Official Synonym Full Names | calcitonin-related polypeptide beta                                                                                |
| NCBI Official Symbol             | CALCB                                                                                                              |
| NCBI Official Synonym Symbols    | CALC2; CGRP2; CGRP-II                                                                                              |
| NCBI Protein Information         | calcitonin gene-related peptide 2; beta-CGRP; calcitonin 2; beta-type CGRP; calcitonin gene-related peptide II     |
| UniProt Protein Name             | Calcitonin gene-related peptide 2                                                                                  |
| UniProt Gene Name                | <b>CALCB</b>                                                                                                       |
| UniProt Synonym Gene Names       | CALC2; Beta-CGRP; CGRP-II                                                                                          |
| UniProt Entry Name               | CALCB_HUMAN                                                                                                        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.