

## 14-3-3 zeta recombinant protein

14-3-3 zeta, 1-245aa, Human, His tag, E Coli

|                              |                       |                                 |
|------------------------------|-----------------------|---------------------------------|
| CATALOG #<br><b>AAA48523</b> | HOST<br><b>E Coli</b> | APPLICATIONS<br><b>SDS-Page</b> |
|------------------------------|-----------------------|---------------------------------|

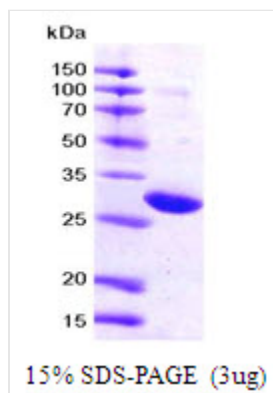
### PRODUCT SYNONYMS

14-3-3 zeta; 1-245aa; Human; His tag; E Coli; Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein zeta polypeptide; YWHAZ; KCIP-1; MGC111427; Tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein; zeta polypeptide; zeta polypeptide 14 3 3 protein zeta/delta; KCIP1; Phospholipase A2; Protein kinase C inhibitor protein 1; Tyr-3/Trp-5 monooxygenase Activation protein; Zeta; Tyr3/Trp5 monooxygenase Activation protein; 14-3-3 zeta recombinant protein

### PRODUCT SPECIFICATIONS

|                                                             |                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                        | E Coli                                                                                                                                                                                                                                                                                                                          |
| Purity/Purification                                         | > 95% by SDS-PAGE                                                                                                                                                                                                                                                                                                               |
| Form/Format                                                 | Liquid in phosphate buffered saline pH7.4                                                                                                                                                                                                                                                                                       |
| Concentration                                               | 1 mg/ml (determined by Bradford assay) (varies by lot)                                                                                                                                                                                                                                                                          |
| Sequence                                                    | MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMDK NELVQKAKLA EQAERYDDMA<br>ACMKSVTEQG AELSNEERNL LSVAYKNVVG ARRSSWRVVS SIEQKTEGAE KKQQMAREYR EKIELLRDI<br>CNDVLSLLEK FLIPNASQAE SKVFYLMKMG DYYRYLAEVA AGDDKKGIVD QSQQAYQAEF EISKKEMQPT<br>HPIRLGLALN FSVFYEILN SPEKACSLAK TAFDEAIAEL DTLSEESYKD STLIMQLLRD NLTLWTSQTQ<br>GDEAEAGEGG EN |
| Sequence Length                                             | 245                                                                                                                                                                                                                                                                                                                             |
| Applicable Applications for 14-3-3 zeta recombinant protein | SDS-PAGE                                                                                                                                                                                                                                                                                                                        |
| Antigen Species                                             | Human                                                                                                                                                                                                                                                                                                                           |
| Tag Information                                             | His-tag                                                                                                                                                                                                                                                                                                                         |
| Preparation and Storage                                     | Can be stored at 4 degree C short term (1-2 weeks).<br>For long term storage, aliquot and store at -20 degree C or -70 degree C.<br>Avoid repeated freezing and thawing cycles.                                                                                                                                                 |

### IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

|                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for 14-3-3 zeta recombinant protein | The 14-3-3 family of proteins plays a key regulatory role in signal transduction, checkpoint control, apoptotic and nutrient-sensing pathways. 14-3-3 proteins are highly conserved and ubiquitously expressed. There are at least seven isoforms, beta, gamma, epsilon, sigma, zeta, tau and eta that have been identified in mammals. 14-3-3 zeta interacts with IRS1 protein, suggesting a role in regulating insulin sensitivity. Recombinant human YWHAZ, fused to His-tag at N-terminus, was expressed in E Coli and purified by using conventional chromatography techniques. |
| Product Categories/Family for 14-3-3 zeta recombinant protein   | Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| References                                                      | Gannon-Murakami L., et al. (2002) J Biol Chem. 277 (26): 23116-23122; Li FQ., et al. (2008) J Cell Biol. 181 (7):1141-54;                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 21735625                                                                                       |
| NCBI GeneID                      | 7534                                                                                           |
| NCBI Accession #                 | NP_663723                                                                                      |
| NCBI GenBank Nucleotide #        | NM_145690.2                                                                                    |
| UniProt Accession #              | P63104; P29213; P29312; Q32P43; Q5XJ08; Q6GPI2; Q6IN74; Q6NUR9; Q6P3U9; Q86V33; A8K1N0; B7Z465 |
| Molecular Weight                 | 32 kDa (245 aa), confirmed by MALDI-TOF.                                                       |
| NCBI Official Full Name          | 14-3-3 protein zeta/delta                                                                      |
| NCBI Official Synonym Full Names | tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein zeta                    |
| NCBI Official Symbol             | YWHAZ                                                                                          |
| NCBI Official Synonym Symbols    | HEL4; YWHAD; KCIP-1; HEL-S-3; HEL-S-93; 14-3-3-zeta                                            |
| NCBI Protein Information         | 14-3-3 protein zeta/delta                                                                      |
| UniProt Protein Name             | 14-3-3 protein zeta/delta                                                                      |
| UniProt Gene Name                | YWHAZ                                                                                          |
| UniProt Synonym Gene Names       | KCIP-1                                                                                         |

**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.