

Calcitonin gene-related peptide 1 Recombinant Protein | CALCA recombinant protein

Recombinant Human Calcitonin gene-related peptide 1

CATALOG # AAA116214	HOST E Coli or Yeast or Baculovirus or Mammalian Cell
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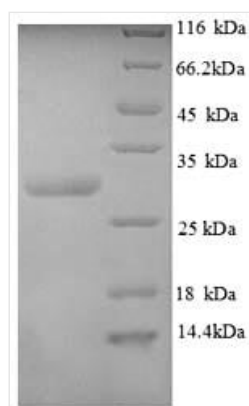
PRODUCT SYNONYMS

Calcitonin gene-related peptide 1; Recombinant Human Calcitonin gene-related peptide 1; Alpha-type CGRP; Calcitonin gene-related peptide I; CGRP-I; CALCA recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Form/Format	Liquid or Lyophilized powder If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8
Sequence Positions	83-118aa; Partial
Sequence	ACDTATCVTH RLAGLLSRSG GVVKNFVPT NVGSKA
Production Note	Special Offer: The E Coli host-expressed protein is manufactured from a stock plasmid containing the protein gene. E Colihost-expressed protein is stocked in different unit sizes ranging from as small as 10 ug to as large as 1 mg. Bulk inventory is also available. The E Coli host-expressed protein has been ordered over and over again by researchers and has stood the test of time as both a robust protein and important target for the research community. It is part of our new program to make our most popular protein targets and corresponding hosts available in expanded unit sizes and with a quick processing time. Select E Coli host-expressed protein for the fastest delivery among all hosts. Please contact our or email to for more details.
Preparation and Storage	Store at -20 degree C, for extended storage, conserve at -20 degree C or -80 degree C.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for CALCA recombinant protein	CGRP induces vasodilation. It dilates a variety of vessels including the coronary, cerebral and systemic vasculature. Its abundance in the CNS also points toward a neurotransmitter or neuromodulator role. It also elevates platelet cAMP.
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Product Categories/Family for CALCA recombinant protein	Signal Transduction
References	Alternative RNA processing events in human calcitonin/calcitonin gene-related peptide gene expression.Jonas V., Lin C.R., Kawashima E., Semon D., Swanson L.W., Mermod J.-J., Evans R.M., Rosenfeld M.G.Proc. Natl. Acad. Sci. U.S.A. 82:1994-1998(1985) Structure and methylation of the human calcitonin/alpha-CGRP gene.Broad P.M., Symes A.J., Thakker R.V., Craig R.K.Nucleic Acids Res. 17:6999-7011(1989) Human chromosome 11 DNA sequence and analysis including novel gene identification.Taylor T.D., Noguchi H., Totoki Y., Toyoda A., Kuroki Y., Dewar K., Lloyd C., Itoh T., Takeda T., Kim D.-W., She X., Barlow K.F., Bloom T., Bruford E., Chang J.L., Cuomo C.A., Eichler E., FitzGerald M.G., Jaffe D.B., LaButti K., Nicol R., Park H.-S., Seaman C., Sougnez C., Yang X., Zimmer A.R., Zody M.C., Birren B.W., Nusbaum C., Fujiyama A., Hattori M., Rogers J., Lander E.S., Sakaki Y.Nature 440:497-500(2006) Structure and expression of a gene encoding human calcitonin and calcitonin gene related peptide.Nelkin B.D., Rosenfeld K.I., de Bustros A., Leong S.S., Roos B.A., Baylin S.B.Biochem. Biophys. Res. Commun. 123:648-655(1984) Expression of the human calcitonin/CGRP gene in lung and thyroid carcinoma.Edbrooke M.R., Parker D., McVey J.H., Riley J.H., Sorenson G.D., Pettengill O.S., Craig R.K.EMBO J. 4:715-724(1985) Calcitonin gene related peptide coding sequence is conserved in the human genome and is expressed in medullary thyroid carcinoma.Steenbergh P.H., Hoppener J.W., Zandberg J., de Ven W.J., Jansz H.S., Lips C.J.J. Clin. Endocrinol. Metab. 59:358-360(1984) Expression and function of the human calcitonin/alpha-CGRP gene in health and disease.Craig R.K., Riley J.H., Edbrooke M.R., Broad P.M., Foord S.M., Al-Kazwini S.J., Holman J.J., Marshall I.Biochem. Soc. Symp. 52:91-105(1986) Isolation and characterization of human calcitonin gene-related peptide.Morris H.R., Panico M., Etienne T., Tippins J., Girgis S.I., McIntyre I.Nature 308:746-748(1984) Identification in the human central nervous system, pituitary, and thyroid of a novel calcitonin gene-related peptide, and partial amino acid sequence in the spinal cord.Petermann J.B., Born W., Chang J.Y., Fischer J.A.J. Biol. Chem. 262:542-545(1987) Isolation and characterization of peptides which act on rat platelets, from a pheochromocytoma.Kitamura K., Kangawa K., Kawamoto M., Ichiki Y., Matsuo H., Eto T.Biochem. Biophys. Res. Commun. 185:134-141(1992) Solution structure of human calcitonin gene-related peptide by 1H NMR and distance geometry with restrained molecular dynamics.Breeze A.L., Harvey T.S., Bazzo R., Campbell I.D.Biochemistry 30:575-582(1991) Solution structures of calcitonin-gene-related-peptide analogues of calcitonin-gene-related peptide and amylin.Hubbard J.A.M., Martin S.R., Chaplin L.C., Bose C., Kelly S.M., Price N.C.Biochem. J. 275:785-788(1991)

NCBI AND UNIPROT INFORMATION

NCBI GI #	76880478
NCBI GeneID	796
NCBI Accession #	NP_001029125.1
NCBI GenBank Nucleotide #	NM_001033953.2
UniProt Accession #	P06881; Q93048; Q9UCP0; P01258
Molecular Weight	30.6 kDa
NCBI Official Full Name	calcitonin gene-related peptide 1 isoform alpha-CGRP preproprotein
NCBI Official Synonym Full Names	calcitonin-related polypeptide alpha
NCBI Official Symbol	CALCA
NCBI Official Synonym Symbols	CT; KC; PCT; CGRP; CALC1; CGRP1; CGRP-I
NCBI Protein Information	calcitonin; calcitonin gene-related peptide 1
UniProt Protein Name	Calcitonin gene-related peptide 1
UniProt Gene Name	CALCA
UniProt Synonym Gene Names	CALC1; CGRP-I
UniProt Entry Name	CALCA_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.

