

Recombinant Human CALCA, GST-tagged

Cat. No. CALCA-10658H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CALCA protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	C-term-77a.a.
Description	This gene encodes the peptide hormones calcitonin, calcitonin gene-related peptide and katacalcin by tissue-specific alternative RNA splicing of the gene transcripts and cleavage of inactive precursor proteins. Calcitonin is involved in calcium regulation and acts to regulate phosphorus metabolism. Calcitonin gene-related peptide functions as a vasodilator while katacalcin is a calcium-lowering peptide. Multiple transcript variants encoding different isoforms have been found for this gene.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.

GENE INFORMATION

Gene Name	CALCA calcitonin-related polypeptide alpha [Homo sapiens]
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Official Symbol	CALCA
Synonyms	CALCA; calcitonin-related polypeptide alpha; CALC1, calcitonin 1; calcitonin; calcitonin gene-related peptide 1; calcitonin; katacalcin; calcitonin 1; alpha-type CGRP; calcitonin gene-related peptide I; calcitonin/calcitonin-related polypeptide, alpha; CT; KC; CGRP; CALC1; CGRP1; CGRP-I; MGC126648;
Gene ID	796
mRNA Refseq	NM_001033952
Protein Refseq	NP_001029124
MIM	114130
UniProt ID	P01258
Chromosome Location	11p15.2
Pathway	Amyloids, organism-specific biosystem; Calcitonin-like ligand receptors, organism-specific biosystem; Class B/2 (Secretin family receptors), organism-specific biosystem; Disease, organism-specific biosystem; G alpha (s) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem;
Function	calcitonin receptor binding; hormone activity; protein binding; protein complex binding; receptor binding;