

Recombinant Mouse Calca protein, His & GST-tagged

Cat. No. Calca-795M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Calca aa. (Val26~Asn136 (Accession # P70160)) fused with N-terminal His & GST tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Val26~Asn136
Description	This gene encodes the peptide hormones calcitonin, calcitonin gene-related peptide (CGRP) and katecalcitonin. Alternative splicing of the mRNA results in multiple variants that encode either calcitonin or CGRP preproteins. Post-translational processing of the calcitonin and CGRP propeptides results in either calcitonin and katecalcitonin, or CGRP, respectively. Calcitonin and katecalcitonin modulate calcium levels in the blood stream. CGRP can function as a vasodilator and play a role in the transmission of pain. The human homolog of CGRP was found to have antimicrobial activity.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 44.3kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 5.8.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	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°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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

Gene Name	Calca calcitonin/calcitonin-related polypeptide, alpha [Mus musculus (house mouse)]
Official Symbol	Calca
Synonyms	CA; Ct; Ctn; Calc; Cgrp; CGRP1; Calc1; CGRP-1; alpha-type CGRP; calcitonin gene-related peptide I; calcitonin gene-related peptide 1
Gene ID	12310
mRNA Refseq	NM_001033954.3
Protein Refseq	NP_001029126.1

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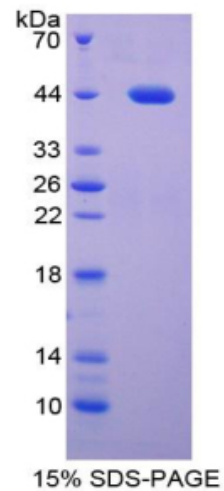
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UniProt ID

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SDS-PAGE

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