

Recombinant Human CALCA Protein

Cat. No. CALCA-07H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CALCA Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	Procalcitonin is a precursor of the peptide hormone calcitonin. Procalcitonin is mainly produced by the neuroendocrine cells of the lung and thyroid gland, but may be secreted ubiquitously during inflammation or infection. Under normal expression conditions, procalcitonin is immediately cleaved into three specific fragments: calcitonin, katacalcin, and an N terminal residue. Levels of unprocessed procalcitonin are significantly increased after bacterial infection, inflammation, trauma, or shock.
Bio-activity	No biological activity data is available at this time.
Molecular Mass	Monomer, 12.8 kDa (116 aa)
AA Sequence	APFRSALESSPADPATLSEDEARLLLAALVQDYVQMKASELEQEQEREGSSLDSPR SKRCGNLSTCMLGTYTQDFNKFHTFPQTAIGVGAPGKKRDMSSDLERDHRPHVSM PQNAN
Endotoxin	≤1 EUs/μg, Kinetic LAL
Purity	≥95%, Reducing and Non-Reducing SDS PAGE

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Stability	<p>12 months from date of receipt when stored at -20 to -80 centigrade as supplied.</p> <p>1 month when stored at 4 centigrade after reconstituting as directed.</p> <p>3 months when stored at -20 to -80 centigrade after reconstituting as directed.</p>
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 10 mM sodium phosphate, pH 7.5
Reconstitution	Sterile water at 0.1 mg/mL
Shipping	Room temperature
Instructions	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name	CALCA calcitonin-related polypeptide alpha [Homo sapiens (human)]
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

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mRNA Refseq	NM_001033952
Protein Refseq	NP_001029124
MIM	114130
UniProt ID	P01258

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