



Synonym

CALC1, CGRP, CGRP-I, CGRP-alpha, CGRP1, CT, KC, PCT

Source

Human CALCA Protein, His Tag(CAA-H52H3) is expressed from human 293 cells (HEK293). It contains AA Ala 26 - Asn 141 (Accession # [P01258](#)).

Predicted N-terminus: Ala 26

Molecular Characterization

CALCA(Ala 26 - Asn 141)
P01258 **Poly-his**

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 14.7 kDa. The protein migrates as 15-16 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μ g by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μ m filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

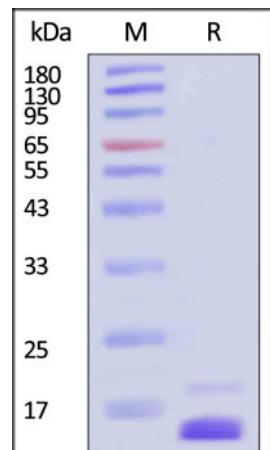
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

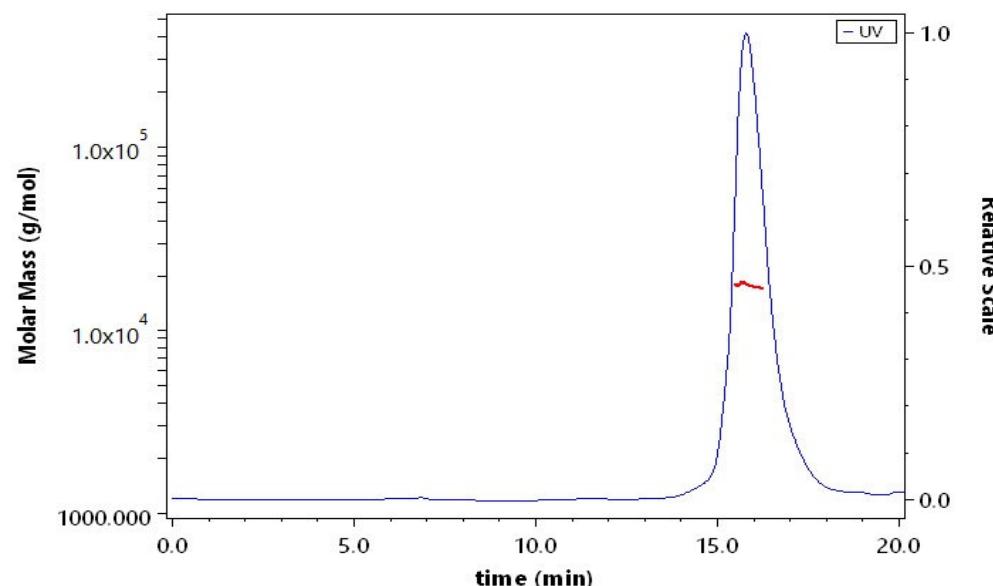
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human CALCA Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

SEC-MALS



The purity of Human CALCA Protein, His Tag (Cat. No. CAA-H52H3) is more than 95% and the molecular weight of this protein is around 14-21 kDa verified by SEC-MALS.

[Report](#)

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Background

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 and as an antimicrobial peptide while katacalcin is a calcium-lowering peptide. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Aug 2014]

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