

# Recombinant Human CALCA Protein

**Cat. No.** CALCA-0063H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human CALCA Protein without tag was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | 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. |
| <b>Applications</b>     | ELISA, CLIA, CG                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Notes</b>            | For research use only, not for use in diagnostic procedure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage</b>          | Short term (up to 7 days) store at 2–8 centigrade. Long term, store at - 20 centigrade. Avoid multiple freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Storage Buffer</b>   | Supplied as a 0.2 µm filtered solution of PBS, pH7.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

## GENE INFORMATION

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|                        |                                                                                                                                                                                                                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CALCA calcitonin-related polypeptide alpha [ Homo sapiens (human) ]                                                                                                                                                                                                                                         |
| <b>Official Symbol</b> | CALCA                                                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>        | 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; |
| <b>Gene ID</b>         | 796                                                                                                                                                                                                                                                                                                         |
| <b>mRNA Refseq</b>     | NM_001033952                                                                                                                                                                                                                                                                                                |
| <b>Protein Refseq</b>  | NP_001029124                                                                                                                                                                                                                                                                                                |
| <b>MIM</b>             | 114130                                                                                                                                                                                                                                                                                                      |
| <b>UniProt ID</b>      | P01258                                                                                                                                                                                                                                                                                                      |

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