

Recombinant Human CASR Protein (Tyr20-Lys601), C-6×His-tagged

Cat. No. CASR-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Calcium-sensing R/CaSR protein (Tyr20-Lys601) with a C-terminal 6×His tag was expressed in Human embryonic kidney cell, HEK293.
Species	Human
Source	HEK293
ProteinLength	Tyr20-Lys601
Description	The protein encoded by this gene is a plasma membrane G protein-coupled receptor that senses small changes in circulating calcium concentration. The encoded protein couples this information to intracellular signaling pathways that modify parathyroid hormone secretion or renal cation handling, and thus this protein plays an essential role in maintaining mineral ion homeostasis. Mutations in this gene are a cause of familial hypocalciuric hypercalcemia, neonatal severe hyperparathyroidism, and autosomal dominant hypocalcemia.
Form	Disulfide-linked homodimer
Bio-activity	Bioassay data are not available.
Molecular Mass	Predicted Molecular Mass: 66 kDa SDS-PAGE: 90-110 kDa, reducing conditions

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N-terminal Sequence Analysis	Tyr20
Endotoxin	< 1.0 EU/μg of the protein by the LAL method.
Purity	>90%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	Reconstitute at 250 μg/mL in PBS.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	CASR calcium sensing receptor [Homo sapiens (human)]
Official Symbol	CASR
Synonyms	CASR; calcium sensing receptor; CAR; FHH; FIH; HHC; EIG8; HHC1; NSHPT; PCAR1; hCasR; GPRC2A; HYPOC1; extracellular calcium-sensing receptor; parathyroid Ca(2+)-sensing receptor 1; parathyroid cell calcium-sensing receptor 1
Gene ID	846

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mRNA Refseq	NM_000388
Protein Refseq	NP_000379
MIM	601199
UniProt ID	P41180

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