

Recombinant Human CASR Protein (Tyr20-Lys601), C-6xHis-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 6xHis 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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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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