

Recombinant Human CASR Protein (Y20-S1078 end), Flag, 10xHis tagged

Cat. No. CASR-0502H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human HA(signal peptide)-Flag-TEV-CaSR(Y20-S1078 end)-10His Protein was expressed in Insect cell.
Species	Human
Source	Insect Cells
ProteinLength	Y20-S1078 end
Description	G-protein-coupled receptor that senses changes in the extracellular concentration of calcium ions and plays a key role in maintaining calcium homeostasis. Senses fluctuations in the circulating calcium concentration and modulates the production of parathyroid hormone (PTH) in parathyroid glands. The activity of this receptor is mediated by a G-protein that activates a phosphatidylinositol-calcium second messenger system. The G-protein-coupled receptor activity is activated by a co-agonist mechanism: aromatic amino acids, such as Trp or Phe, act concertedly with divalent cations, such as calcium or magnesium, to achieve full receptor activation.
Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein
Purity	80%

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Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	20 mM HEPES pH 7.5, 150 mM NaCl, 0.005% GDN, 0.0005% CHS
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	CASR calcium-sensing receptor [Homo sapiens (human)]
Official Symbol	CASR
Synonyms	CASR; calcium-sensing receptor; HHC, HHC1, hypocalciuric hypercalcemia 1; extracellular calcium-sensing receptor; FHH; GPRC2A; NSHPT; severe neonatal hyperparathyroidism; parathyroid Ca(2+)-sensing receptor 1; parathyroid cell calcium-sensing receptor; CAR; FIH; HHC; EIG8; HHC1; PCAR1; MGC138441;
Gene ID	846
mRNA Refseq	NM_000388
Protein Refseq	NP_000379
UniProt ID	P41180

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