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Product Sheet

Human CASR(20-601) Protein; His Tag

GM-89092RP-100 / 100 μg
GM-89092RP-1000 / 1 mg

Product Information

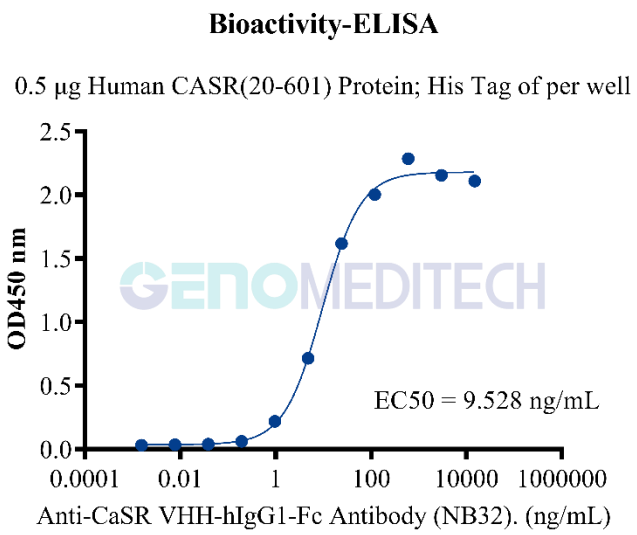
Product Name	Human CASR(20-601) Protein; His Tag
Source	Human CASR(20-601) Protein; His Tag (GM-89092RP) is expressed from human 293 cells (HEK-293). It contains AA Tyr 20 - Lys 601 (Accession # P41180-1). This protein carries a His tag at the C-terminus.
Predicted MW	66.0 kDa
Purity	> 90% as determined by SDS-PAGE
Endotoxin	< 1 EU/μg, determined by LAL gel clotting assay
Formulation	Liquid; Supplied as a 0.2 μm filtered solution of PBS, pH 7.2–7.4.
Storage	Store at ≤ -70℃, stable for 6 months after receipt. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Shipping	Shipped on dry ice.
Synonyms	CAR, EIG8, FHH, FIH, GPRC2A, HHC, HHC1, HYPOC1, NSHPT, PCAR1, hCasR
Background	CASR (calcium-sensing receptor) is a class C G-protein-coupled receptor that monitors extracellular calcium and maintains systemic mineral homeostasis. Its bilobed Venus flytrap ectodomain, joined through a cysteine-rich region to seven transmembrane helices, binds calcium and is allosterically tuned by L-amino acids and polyamines; the receptor functions as a disulfide-linked homodimer. Activation couples principally to Gq/11, stimulating phospholipase C to generate inositol 1,4,5-trisphosphate and mobilize intracellular calcium, with additional Gi/o and MAPK signaling. In parathyroid chief cells CASR suppresses parathyroid hormone secretion, and in renal tubules it limits calcium reabsorption. Inactivating variants cause familial hypocalciuric hypercalcemia, activating variants cause autosomal dominant hypocalcemia, and calcimimetics lower parathyroid hormone in hyperparathyroidism.

Version 4.0.26.1012

For research use only!

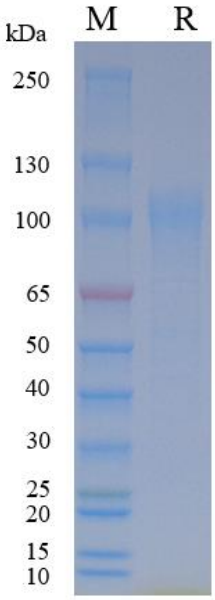
Data

Affinity



Human CASR(20-601) Protein; His Tag (Catalog # GM-89092RP) was immobilized at 5 μg/ml (100 μl/well). Increasing concentrations of Anti-CaSR VHH-hIgG1-Fc Antibody (NB32)(Catalog # GM-89091AB) were added.

Purity



On SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.

Related Products

CASR	
H_CASR Reporter CHO-K1 Cell Line	