



Rat CASR peptide (DAG-P1382)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The protein encoded by this gene is a G protein-coupled receptor that is expressed in the parathyroid hormone (PTH)-producing chief cells of the parathyroid gland, and the cells lining the kidney tubule. It senses small changes in circulating calcium concentration and couples this information to intracellular signaling pathways that modify PTH secretion or renal cation handling, thus this protein plays an essential role in maintaining mineral ion homeostasis. Mutations in this gene cause familial hypocalciuric hypercalcemia, familial, isolated hypoparathyroidism, and neonatal severe primary hyperparathyroidism. [provided by RefSeq, Jul 2008]
Specificity	Expressed in the temporal lobe, frontal lobe, parietal lobe, hippocampus, and cerebellum. Also found in kidney, lung, liver, heart, skeletal muscle, placenta.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the G-protein coupled receptor 3 family.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

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; GPRC2A; HYPOC1; extracellular calcium-sensing receptor; parathyroid Ca(2+)-sensing

receptor 1; parathyroid cell calcium-sensing receptor 1;

Entrez Gene ID	846
mRNA Refseq	NM_000388.3
Protein Refseq	NP_000379.2
UniProt ID	P41180
Chromosome Location	3q13
Pathway	Class C/3 (Metabotropic glutamate/pheromone receptors), organism-specific biosystem; E-cadherin signaling in keratinocytes, organism-specific biosystem; G alpha (i) signalling events, organism-specific biosystem; G alpha (q) signalling events, organism-specific biosystem; GPCR downstream signaling, organism-specific biosystem; GPCR ligand binding, organism-specific biosystem; GPCRs, Class C Metabotropic glutamate, pheromone, organism-specific biosystem; Gastrin-CREB signalling pathway via PKC an
Function	G-protein coupled receptor activity; phosphatidylinositol phospholipase C activity; protein binding;