

Product Information

MemDX™ Membrane Protein Human CASR (Calcium sensing receptor) Expressed in HEK293 for Antibody Discovery, Partial (20-601aa)

Cat. No.: **MPX0052K**

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

This product is a 66 kDa Human CASR membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

CASR

Protein Length

Partial (20-601aa)

Protein Class

GPCR

Molecular Weight

66 kDa

TMD

7

Sequence

YGPDQRAQKKGDILGGLFPIHFGVAAKDQD
LKSRPESVECIRYNFRGFRWLQAMIFAIEEINSSPALLPNLTLGYRIFDT
CNTVSKALEATLSFVAQNKIDSLNLDEFCNCSEHIPSTIAVVGATGSGVS
TAVANLLGLFYIPQVSYASSRLLSNKNQFKSFLRTIPNDEHQATAMADI
IEYFRWNWVGITIAADDDYGRPGIEKFREEAEERDIDFSELISQYSDEE
EIQHVVEVIQNSTAKVIVVFSSGPDLEPLIKEIVRRNITGKIWLASEAWA
SSSLIAMPQYFHVVGGTIGFALKAGQIPGFREFLKKVHPRKSVHNGFAKE
FWEETFNCHLQEGAKGPLPVDTFLRGHEESGDRFSNSSTAFRPLCTGDEN
ISSVETPYIDYTHLRISYNVYLAVYSIAHALQDIYTCLPGRGLFTNGSCA
DIKKVEAWQVLKHLRHLNFTNNMGEQVTFDECGDLVGNYSIINWHLSPED
GSIVFKEVGYYNVYAKKGERLFINEEKILWSGFSREVPFSNCSRDCLAGT
RKGIIEGEPTCCFECVECPDGEYSDETDASACNKCPDDFWSNENHTSCIA
K

Product Description

Expression Systems

HEK293

Tag

6xHis tag at the C-terminus

Protein Format

Soluble

Form

LYOPH

Reconstitution

Reconstitute at 250 µg/mL in PBS.

Endotoxin

<0.1 EU/µg by the LAL method

Purity

>90%, by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie® Blue Staining.

Buffer

Lyophilized from a 0.2 µm filtered solution in PBS.

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

CASR

Full Name

Calcium sensing receptor

Introduction

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.

Alternative Names

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; CASR; Calcium sensing receptor

Gene ID

[846](#)

UniProt ID

[P41180](#)