

Product Information

NativeExtract™ Human CASR Membrane Protein (Full length, Super Nanodisc)

Cat. No.: **S01YF-1023-KX296**

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

This product is recombinant Human CASR protein in native nanodisc form. The synthetic compound we developed can solubilize the CASR protein from membrane while retaining the native structure.

Product Specifications

Host Species

Human

Target Protein

CASR

Protein Length

Full length

Molecular Weight

120.7kDa

Sequence

Accession # [P41180](#)

Product Description

Activity

Yes

Application

ELISA; SPR Binding Assays; Phage Display Screening; Immunity; Functional Assays

Expression Systems

HEK293 expression system

Tag

Flag tag at the C-terminus

Protein Format

Native Nanodisc

Form

Liquid

Buffer

20 mM Tris-HCl, 150 mM NaCl, pH 8.0

Storage

The product should be stored at -20°C to -80°C.

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](#)