

Datasheet for ABIN7596694

CASR Protein (DYKDDDDK Tag, Strep Tag)



[Go to Product page](#)

Overview

Quantity:	10 µg
Target:	CASR
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic Nanodisc
Purification tag / Conjugate:	This CASR protein is labelled with DYKDDDDK Tag, Strep Tag.
Application:	Immunogen (Imm), ELISA, Surface Plasmon Resonance (SPR), Phage Display (PhD), Cryogenic electron microscopy (cryo-EM)

Product Details

Purpose:	Human CASR-Strep full length protein-synthetic nanodisc
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Target Details

Target:	CASR
Alternative Name:	CASR (CASR Products)
Background:	<p>CAR, EIG8, FHH, FIH, GPRC2A, HHC, HHC1, HYPOC1, NSHPT, PCAR1, hCasR</p> <p>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. [provided by</p>

Target Details

	RefSeq, Aug 2017]
Molecular Weight:	The human full length CASR-Strep protein has a MW of 120.7 kDa
UniProt:	P41180
Pathways:	Positive Regulation of Peptide Hormone Secretion, Carbohydrate Homeostasis

Application Details

Comment:	Advantages: <ul style="list-style-type: none">• Highly purified membrane proteins• High solubility in aqueous solutions• High stability• Proteins are in a native membrane environment and remain biologically active• No detergent and can be used for cell-based assays• No MSP backbone proteins• Mammalian cell expression system ensures post- translational modifications
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Buffer:	Solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Expiry Date:	12 months