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Datasheet for ABIN7491693

MC4R Protein

Overview

Quantity:	100 µg
Target:	MC4R
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic

Product Details

Purpose:	Human MC4R full length protein-synthetic nanodisc
Characteristics:	Full Length Transmembrane Proteins (synthetic Nanodisc)

Target Details

Target:	MC4R
Alternative Name:	MC4R (MC4R Products)
Background:	<p>BMIQ20</p> <p>Description: The protein encoded by this gene is a membrane-bound receptor and member of the melanocortin receptor family. The encoded protein interacts with adrenocorticotrophic and MSH hormones and is mediated by G proteins. This is an intronless gene. Defects in this gene are a cause of autosomal dominant obesity. [provided by RefSeq, Jan 2010]</p>
Molecular Weight:	The human full length MC4R protein has a MW of 36.8 kDa
UniProt:	P32245
Pathways:	Hormone Transport , cAMP Metabolic Process , Feeding Behaviour

Application Details

Application Notes:	<ul style="list-style-type: none">• Applications for VLPs:• ELISA• SPR affinity analysis• Phage display screening• Immunization• Cell based assays• CAR-T cell screening• Protein crystal structure analysis
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Comment:	Synthetic Nanodisc can be prepared directly from the cells. The polymers used during this process have a dual function. It dissolves the cell membranes, like the detergent, and uses cellular phospholipids to form Nanodisc around the membrane proteins. The target protein embedded Nanodiscs can then be purified.
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Restrictions:	For Research Use only
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Handling

Format:	Liquid
Buffer:	Supplied in nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0)
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