EDNRB Human Protein

PRODUCT OVERVIEW

Product Name	EDNRB, Protein
Full Product Name	Human EDNRB full length protein-synthetic nanodisc
Product Gene Name	EDNRB protein
Product Synonym Names	ABCDS; ET-B; ET-BR; ETB; ETB1; ETBR; ETRB; HSCR; HSCR2; WS4A
Host	HEK293
Form/Format	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions.
Preparation and Storage	Store at -20 degree C to -80 degree C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80 degree C (Avoid repeated freezing and thawing).
Molecular Weight	49,644 Da
OMIM	131244
3D Structure	ModBase 3D Structure for P24530
Product Categories/Family for EDNRB protein	FLP 489; Full Length Transmembrane Proteins
Related Product Information for EDNRB protein	The protein encoded by this gene is a G protein-coupled receptor which activates a phosphatidylinositol-calcium second messenger system. Its ligand, endothelin, consists of a family of three potent vasoactive peptides: ET1, ET2, and ET3. Studies suggest that the multigenic disorder, Hirschsprung disease type 2, is due to mutations in the endothelin receptor type B gene. Alternative splicing and the use of alternative promoters results in multiple transcript variants. [provided by RefSeq, Oct 2016]
Other Notes	Small volumes of EDNRB protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for EDNRB purchase	MBS189986 is a protein targeting EDNRB. Also known as Human EDNRB full length protein-synthetic nanodisc. Host: HEK293.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EDNRB. It may not necessarily be applicable to this product.

NCBI GI #	4557547
NCBI GeneID	1910
NCBI Accession #	NP_000106.1
UniProt Primary Accession #	P24530
UniProt Secondary Accession #	O15343; Q59GB1; Q5W0G9; Q8NHM6; Q8NHM7; Q8NHM8; Q8NHM9; Q9UD23; Q9UQK3; A2A2Z8; A8K3T4
UniProt Related Accession #	P24530; AAB24922
GenBank Nucleotide #	NM_000115.3
NCBI Official Full Name	endothelin B receptor isoform 1
NCBI Official Synonym Full Names	endothelin receptor type B

NCBI Official Symbol	EDNRB
NCBI Official Synonym Symbols	ETB; ET-B; ETBR; ETRB; HSCR; WS4A; ABCDS; ET-BR; HSCR2
UniProt Protein Name	Endothelin B receptor
UniProt Synonym Protein Names	Endothelin receptor non-selective type
Protein Family	Endothelin B receptor
UniProt Gene Name	EDNRB
UniProt Synonym Gene Names	ETRB; ET-B; ET-BR
UniProt Entry Name	EDNRB_HUMAN
NCBI Protein Information	endothelin B receptor; endothelin receptor non-selective type
NCBI Summary for EDNRB	The protein encoded by this gene is a G protein-coupled receptor which activates a phosphatidylinositol-calcium second messenger system. Its ligand, endothelin, consists of a family of three potent vasoactive peptides: ET1, ET2, and ET3. Studies suggest that the multigenic disorder, Hirschsprung disease type 2, is due to mutations in the endothelin receptor type B gene. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2011]
UniProt Comments for EDNRB	ETB: a G protein-coupled receptor which activates a phosphatidylinoitol-calcium second messenger system. Its ligand, endothelin, consists of a family of three potent vasoactive peptides: ET1, ET2, and ET3. Studies suggest that the multigenic disorder, Hirschsprung disease type 2, is due to mutation in endothelin receptor type B gene. Essential component in the normal development of two neuronal crest-derived cell lineages. Two splice variant isoforms have been described. Protein type: GPCR, family 1; Membrane protein, multi-pass; Receptor, GPCR; Membrane protein, integral Chromosomal Location of Human Ortholog: 13q22 Cellular Component: nuclear membrane; integral to plasma membrane; plasma membrane; lipid raft Molecular Function: endothelin receptor activity; protein binding; peptide hormone binding; type 1 angiotensin receptor binding Biological Process: epithelial fluid transport; cGMP-mediated signaling; regulation of fever; negative regulation of cellular protein metabolic process; response to pain; negative regulation of transcription from RNA polymerase II promoter; vein smooth muscle contraction; sensory perception of pain; response to organic cyclic substance; enteric nervous system development; vasodilation; regulation of epithelial cell proliferation; elevation of cytosolic calcium ion concentration; cell surface receptor linked signal transduction; regulation of blood pressure; melanocyte differentiation; positive regulation of cell proliferation; regulation of pH; neural crest cell migration; aging; vasoconstriction; nervous system development; posterior midgut development; negative regulation of adenylate cyclase activity; macrophage chemotaxis; peripheral nervous system development; negative regulation of neuron maturation; G-protein signaling, coupled to IP3 second messenger (phospholipase C activating); regulation of sensory perception of pain; positive regulation of protein amino acid phosphorylation; negative regulation of apoptosis Disease: Abcd Syndrome; Waardenburg Syndrome, Type 4a; Hirschsprung Disease, Susceptibility To, 2
Research Articles on EDNRB	**1.** The endothelin B receptor was demonstrated to mediate the proliferation of oligodendroglioma cells according to an ERK-dependent mechanism.
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