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Datasheet for ABIN7317730
Ephrin B1 Protein (EFNB1) (His tag,Fc Tag)

Overview

Quantity:	100 µg
Target:	Ephrin B1 (EFNB1)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This Ephrin B1 protein is labelled with His tag,Fc Tag.

Product Details

Purpose:	Recombinant Human Ephrin-B1/EFNB1 Protein (His & Fc Tag)(Active)
Sequence:	Met 1-Gly 232
Characteristics:	A DNA sequence encoding the human EFNB1 (NP_004420.1) extracellular domain (Met 1-Gly 232) was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.
Purity:	>(79.7+18.0) % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its binding ability in a functional ELISA. Immobilized mouse EphB3 at 2 µg/ml (100 µl/well) can bind human EFNB1 Fc chimera with a linear ranger of 1.56-25 ng/ml.

Target Details

Target:	Ephrin B1 (EFNB1)
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Target Details

Alternative Name: Ephrin-B1/EFNB1 ([EFNB1 Products](#))

Background: Ephrin-B1 also known as EFNB1, is a member of the ephrin family. The transmembrane-associated ephrin ligands and their Eph family of receptor tyrosine kinases are expressed by cells of the SVZ. Eph/ephrin interactions are implicated in axon guidance, neural crest cell migration, establishment of segmental boundaries, and formation of angiogenic capillary plexi. Eph receptors and ephrins are divided into two subclasses, A and B, based on binding specificities. Ephrin subclasses are further distinguished by their mode of attachment to the plasma membrane: ephrin-A ligands bind EphA receptors and are anchored to the plasma membrane via a glycosylphosphatidylinositol (GPI) linkage, whereas ephrin-B ligands bind EphB receptors and are anchored via a transmembrane domain. An exception is the EphA4 receptor, which binds both subclasses of ephrins. EphrinB1 and B class Eph receptors provide positional cues required for the normal morphogenesis of skeletal elements. Another malformation, preaxial polydactyly, was exclusively seen in heterozygous females in which expression of the X-linked ephrinB1 gene was mosaic, so that ectopic EphB-ephrinB1 interactions led to restricted cell movements and the bifurcation of digital rays.

Synonym: Ephrin-B1,EFL-3, ELK ligand, EPH-related receptor tyrosine kinase ligand 2,LERK-2,CFND,CFNS,EFB1,EFL3,Eik-L,EPLG2,LERK2

Molecular Weight: 51.2 kDa

NCBI Accession: [NP_004420](#)

Pathways: [RTK Signaling](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.