

Datasheet for ABIN1691758

Ephrin B2 Protein (EFNB2) (AA 29-227) (Fc Tag,His tag)



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Overview

Quantity:	50 µg
Target:	Ephrin B2 (EFNB2)
Protein Characteristics:	AA 29-227
Origin:	Mouse
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Ephrin B2 protein is labelled with Fc Tag,His tag.

Product Details

Purpose:	Recombinant Mouse Ephrin-B2/EFNB2 (C-Fc-6His)
Sequence:	RSIVLEPIYW NSSNSKFLPG QGLVLYPQIG DKLDIICPKV DSKTVGQY EY YKVY MV D K D Q ADRCTIKKEN TPLLNCARPD QDVKFTIKFQ EFSPNLWGLE FQKNKDYYII STSNGSLEGL DNQEGGVCQT RAMKILMKVG QDASSAGSAR NHGPTRRPEL EAGTNGRSST TSPFVKPNPG SSTDGN SAGH SGNNLLGSEV DDIEGRMDEP KSCDKTHTCP PCPAPELLGG PSVFLFPPKP KDTLMISRTP EVTCVVVDVS HEDPEVKFNW YVDGVEVHNA KTKPREEQYN STYRVVSVLT VLHQDWLNGK EYKCKVSNKA LPAPIEKTIS KAKGQPREPQ VYTLPPSREE MTKNQVSLTC LVKGFYPSDI AVEWESNGQP ENNYKTTTPV LDSGGSFFLY SKLTVDKSRW QQGNVFSCSV MHEALHNHYT QKSLSLSPGK HHHHHH
Characteristics:	Recombinant Mouse Ephrin-B2/EFNB2 (C-Fc-6His)
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered

Product Details

Endotoxin Level: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test

Target Details

Target: Ephrin B2 (EFNB2)

Alternative Name: Ephrin-B2/Efnb2 ([EFNB2 Products](#))

Background: Recombinant Mouse Ephrin-B2/Efnb2 produced by transfected human cells is a secreted protein with sequence (Arg29-Glu227) of Mouse Ephrin-B2 fused with a FC-6His tag at the C-terminus.

Ephrin-B2 is a single-pass type I membrane protein and it contains 1 ephrin RBD (ephrin receptor-binding) domain. Ephrin-B2 belongs to the ephrin (EPH) family and it is cell surface transmembrane ligand for Eph receptors, a family of receptor tyrosine kinases which are crucial for migration, repulsion and adhesion during neuronal, vascular and epithelial development. The ephrins and EPH-related receptors contain the largest subfamily of receptor protein-tyrosine kinases and have been associated with mediating developmental events, particularly in the nervous system and in erythropoiesis. Based upon their structures and sequence relationships, ephrins are allocated into the ephrin-A (EFNA) class, which are anchored to the membrane by a glycosylphosphatidylinositol linkage, and the ephrin-B (EFNB) class, which are transmembrane proteins. It also binds to receptor tyrosine kinase including EPHA4, EPHA3 and EPHB4 and together with EPHB4 plays a central role in heart morphogenesis and angiogenesis through regulation of cell adhesion and cell migration.

Molecular Weight: 49.6 kDa

UniProt: [P52800](#)

Pathways: [RTK Signaling, Regulation of Muscle Cell Differentiation](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: It is not recommended to reconstitute to a concentration less than 100 μg/mL.

Dissolve the lyophilized protein in ddH₂O.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Handling

Buffer:	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	<p>Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>