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Ephrin B2 Protein (EFNB2) (AA 29-232) (His tag)



Image



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Overview

1 mg
Ephrin B2 (EFNB2)
AA 29-232
Mouse
Escherichia coli (E. coli)
Recombinant
This Ephrin B2 protein is labelled with His tag.
Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)
RSIVLEPIYW NSSNSKFLPG QGLVLYPQIG DKLDIICPKV DSKTVGQYEY YKVYMVDKDQ
ADRCTIKKEN TPLLNCARPD QDVKFTIKFQ EFSPNLWGLE FQKNKDYYII STSNGSLEGL
DNQEGGVCQT RAMKILMKVG QDASSAGSAR NHGPTRRPEL EAGTNGRSST TSPFVKPNPG
SSTDGNSAGH SGNNLLGSEV ALFA
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The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receival of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in bacterial culture:

- In a first purification step, the protein is purified from the cleared cell lysate using three different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
- 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Sterility:

0.22 µm filtered

Endotoxin Level:

Endotoxin has not been removed. Please contact us if you require endotoxin removal.

Grade:

Crystallography grade

Target Details

Target:	Ephrin B2 (EFNB2)
Alternative Name:	Efnb2 (EFNB2 Products)
Background:	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. Binds promiscuously Eph receptors residing on adjacent cells, leading to contact-

dependent bidirectional signaling into neighboring cells. The signaling pathway downstream of
the receptor is referred to as forward signaling while the signaling pathway downstream of the
ephrin ligand is referred to as reverse signaling. Binds to receptor tyrosine kinase including
EPHA4, EPHA3 and EPHB4. Together with EPHB4 plays a central role in heart morphogenesis
and angiogenesis through regulation of cell adhesion and cell migration. EPHB4-mediated
forward signaling controls cellular repulsion and segregation from EFNB2-expressing cells. May
play a role in constraining the orientation of longitudinally projecting axons.
{ECO:0000269 PubMed:10704386}.

In addition to the applications listed above we expect the protein to work for functional studies

Molecular Weight:	23.3 kDa Including tag.
UniProt:	P52800
Pathways:	RTK Signaling, Regulation of Muscle Cell Differentiation

Application Details

Application Notes:

	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee
	though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the
	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher
	molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible
	options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process