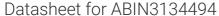
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EPH Receptor B3 Protein (EPHB3) (AA 30-554) (His tag)



Image



Overview

Quantity:	1 mg
Target:	EPH Receptor B3 (EPHB3)
Protein Characteristics:	AA 30-554
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EPH Receptor B3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

LEETLMDTKW VTSELAWTSH PESGWEEVSG YDEAMNPIRT YQVCNVRESS QNNWLRTGFI WRREVQRVYV ELKFTVRDCN SIPNIPGSCK ETFNLFYYEA DSDVASASSP FWMENPYVKV DTIAPDESFS RLDAGRVNTK VRSFGPLSKA GFYLAFQDQG ACMSLISVRA FYKKCASTTA GFALFPETLT GAEPTSLVIA PGTCIANAVE VSVPLKLYCN GDGEWMVPVG ACTCATGHEP AAKESQCRAC PPGSYKAKQG EGPCLPCPPN SRTTSPAASI CTCHNNFYRA DSDSADSACT TVPSPPRGVI SNVNETSLIL EWSEPRDLGG RDDLLYNVIC KKCRGSSGAG GPATCSRCDD NVEFVPRQLG LTERRVHISH LLAHTRYTFE VQAVNGVSGK SPLPPRYAAV NITTNQAAPS EVPTLHLHSS SGSSLTLSWA PPERPNGVIL DYEMKYFEKS KGIASTVTSQ KNSVQLDGLQ PDARYVVQVR ARTVAGYGQY SHPAEFETTS ERGSGAQQLQ EQLPL

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany from design to production by highly experienced protein experts.
- Mouse Ephb3 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made to order protein and will be made for the first time for your order. Our experts in the lab will ensure that you receive a correctly folded protein.

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 baculovirus infected SF9 insect cells:

- 1. 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: Protein is endotoxin free.

Grade: Crystallography grade

Target Details

Target:	EPH Receptor B3 (EPHB3)
Alternative Name:	Ephb3 (EPHB3 Products)
Background:	Receptor tyrosine kinase which binds promiscuously transmembrane ephrin-B family ligands 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. Generally has an overlapping and redundant function with EPHB2. Like EPHB2, functions in axon guidance during development regulating for instance the neurons forming the corpus callosum and the anterior commissure, 2 major interhemispheric connections between the temporal lobes of the cerebral cortex. In addition to its role in axon guidance plays also an important redundant role with other ephrin-B receptors in development and maturation of dendritic spines and the formation of excitatory synapses. Controls other aspects of development through regulation of cell migration and positioning. This includes angiogenesis, palate development and thymic epithelium development for instance. Forward and reverse signaling through the EFNB2/EPHB3 complex also regulate migration and adhesion of cells that tubularize the urethra and septate the cloaca. Finally, plays an important role in intestinal epithelium differentiation segregating progenitor from differentiated cells in the crypt. {ECO:0000269 PubMed:12408869, ECO:0000269 PubMed:14691139, ECO:0000269 PubMed:15223334, ECO:0000269 PubMed:19598115, ECO:0000269 PubMed:8947026, ECO:0000269 PubMed:9990854}.
Molecular Weight:	58.3 kDa Including tag.
UniProt:	P54754
Pathways:	RTK Signaling
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies 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.

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)

Images

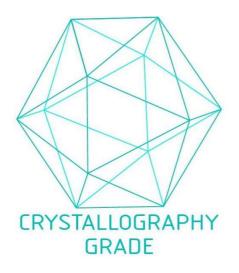


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process