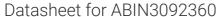
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EPH Receptor A2 Protein (EPHA2) (AA 24-537) (His tag)



Overview

Quantity:	1 mg
Target:	EPH Receptor A2 (EPHA2)
Protein Characteristics:	AA 24-537
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EPH Receptor A2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), ELISA, Western Blotting (WB), Crystallization (Crys)

Product Details

Sequence:

AQGKEVVLLD FAAAGGELGW LTHPYGKGWD LMQNIMNDMP IYMYSVCNVM SGDQDNWLRT NWVYRGEAER IFIELKFTVR DCNSFPGGAS SCKETFNLYY AESDLDYGTN FQKRLFTKID TIAPDEITVS SDFEARHVKL NVEERSVGPL TRKGFYLAFQ DIGACVALLS VRVYYKKCPE LLQGLAHFPE TIAGSDAPSL ATVAGTCVDH AVVPPGGEEP RMHCAVDGEW LVPIGQCLCQ AGYEKVEDAC QACSPGFFKF EASESPCLEC PEHTLPSPEG ATSCECEEGF FRAPQDPASM PCTRPPSAPH YLTAVGMGAK VELRWTPPQD SGGREDIVYS VTCEQCWPES GECGPCEASV RYSEPPHGLT RTSVTVSDLE PHMNYTFTVE ARNGVSGLVT SRSFRTASVS INQTEPPKVR LEGRSTTSLS VSWSIPPPQQ SRVWKYEVTY RKKGDSNSYN VRRTEGFSVT LDDLAPDTTY LVQVQALTQE GQGAGSKVHE FQTLSPEGSG NLAV

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.
- Human EPHA2 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 A2 (EPHA2)
Alternative Name:	EPHA2 (EPHA2 Products)
Background:	Receptor tyrosine kinase which binds promiscuously membrane-bound ephrin-A 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.
	Activated by the ligand ephrin-A1/EFNA1 regulates migration, integrin-mediated adhesion,
	proliferation and differentiation of cells. Regulates cell adhesion and differentiation through
	DSG1/desmoglein-1 and inhibition of the ERK1/ERK2 (MAPK3/MAPK1, respectively) signaling
	pathway. May also participate in UV radiation-induced apoptosis and have a ligand-independent
	stimulatory effect on chemotactic cell migration. During development, may function in
	distinctive aspects of pattern formation and subsequently in development of several fetal
	tissues. Involved for instance in angiogenesis, in early hindbrain development and epithelial
	proliferation and branching morphogenesis during mammary gland development. Engaged by
	the ligand ephrin-A5/EFNA5 may regulate lens fiber cells shape and interactions and be
	important for lens transparency development and maintenance. With ephrin-A2/EFNA2 may
	play a role in bone remodeling through regulation of osteoclastogenesis and
	osteoblastogenesis. {ECO:0000269 PubMed:10655584, ECO:0000269 PubMed:16236711,
	ECO:0000269 PubMed:18339848, ECO:0000269 PubMed:19573808,
	ECO:0000269 PubMed:20679435, ECO:0000269 PubMed:20861311,
	ECO:0000269 PubMed:23358419}.
Molecular Weight:	57.4 kDa Including tag.
UniProt:	P29317
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:	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.

Application Details

Expiry Date:

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.

Unlimited (if stored properly)