

Datasheet for ABIN3092456

**EPH Receptor A8 Protein (EPHA8) (AA 28-542) (His tag)**[Go to Product page](#)**1** Image

## Overview

|                               |  |
|-------------------------------|--|
| Quantity:                     | 1 mg   |
| Target:                       | EPH Receptor A8 (EPHA8)  |
| Protein Characteristics:      | AA 28-542  |
| Origin:                       | Human  |
| Source:                       | Insect Cells   |
| Protein Type:                 | Recombinant  |
| Purification tag / Conjugate: | This EPH Receptor A8 protein is labelled with His tag.               |
| Application:                  | Western Blotting (WB), ELISA, SDS-PAGE (SDS), Crystallization (Crys) |

## Product Details

Sequence: ARGEVNLLDT STIHGDWGWL TYPAHGWDSI NEVDESFPQI HTYQVCNVMS PNQNNWLRTS  
WVPRDGARRV YAEIKFTLRD CNSMPGVLGT CKETFNLYYL ESDRDLGAST QESQFLKIDT  
IAADESFTGA DLGVRRLLKN TEVRSVGPLS KRGFYLAQD IGACLAISL RIYYKKCPAM  
VRNLAAFSEA VTGADSSSLV EVRGQCVRHS EERDTPKMYC SAEGEWLVPI GKCVCSAGYE  
ERRDACVACE LGFYKSAPGD QLCARCPPHS HSAAPAAQAC HCDLSYYRAA LDPPSSACTR  
PPSAPVNLIS SVNGTSVTLE WAPPLDPGGR SDITYNAVCR RCPWALSRC EACGSGTRFVP  
QQTSLVQASL LVANLLAHMN YSFWIEAVNG VSDLSPEPRR AAVVNITTNQ AAPSQVVVIR  
QERAGQTSVS LLWQEPEQPN GIILEYEIKY YEKDKEMQSY STLKAVTTRA TVSGLKPGTR  
YVFQVRARTS AGCGRFSQAM EVETGKPRPR YDTRT

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

## Product Details

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- Characteristics:
- Made in Germany - from design to production - by highly experienced protein experts.
  - Human EPHA8 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 receipt 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 A8 (EPHA8)  |
| Alternative Name: | EPHA8 ( <a href="#">EPHA8 Products</a> )   |
| Background:       | Receptor tyrosine kinase which binds promiscuously GPI-anchored 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. The GPI-anchored ephrin-A EFNA2, EFNA3, and EFNA5 are able to activate EPHA8 through phosphorylation. With EFNA5 may regulate integrin-mediated cell adhesion and migration on fibronectin substrate but also neurite outgrowth. During development of the nervous system plays also a role in axon guidance. Downstream effectors of the EPHA8 signaling pathway include FYN which promotes cell adhesion upon activation by EPHA8 and the MAP kinases in the stimulation of neurite outgrowth (By similarity). {ECO:0000250}. |
| Molecular Weight: | 57.8 kDa Including tag.  |
| UniProt:          | <a href="#">P29322</a>   |
| Pathways:         | <a href="#">RTK Signaling</a>  |

## 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 guarantee 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. |
| 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   |

## Handling

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Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)

## Images

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**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process