

Datasheet for ABIN3094833

PTPRH Protein (AA 776-1115) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	PTPRH
Protein Characteristics:	AA 776-1115
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PTPRH protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys), ELISA

Product Details

Sequence:	<p>LKRRNKKKQQ KPELRDLVFS SPGDIPAEDF ADHVRKNERD SNCGFADKYQ QLSLVGHSQS QMVASASENN AKNRYRNVLP YDWSRVPLKP IHEEPGSDYI NASFMPGLWS PQEFIATQGP LPQTVGDFWR LVWEQQSHTL VMLTNCMEAG RVKCEHYWPL DSQPCTHGH L RVTLVGEEVM ENWTVRELLL LQVEEQKTLS VRQFHYQAWP DHGVPSSPDT LLAFWRMLRQ WLDQTMEGGP PIVHCSAGVG RTGTLIALDV LLRQLQSEGL LGPFSFVRKM RESRPLMVQT EAQYVFLHQC ILRFLQQSAQ APAEKEVPYE DVENLIYENV AAIQAHKLEV</p> <p>Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.</p>
Characteristics:	<ul style="list-style-type: none">• Made in Germany - from design to production - by highly experienced protein experts.• Human PTPRH 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).

Product Details

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: <ol style="list-style-type: none">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:	PTPRH
---------	-------

Alternative Name:	PTPRH (PTPRH Products)
-------------------	--

Background:	May contribute to contact inhibition of cell growth and motility by mediating the
-------------	---

Target Details

dephosphorylation of focal adhesion-associated substrates and thus negatively regulating integrin-promoted signaling processes. Induces apoptotic cell death by at least two distinct mechanisms: inhibition of cell survival signaling mediated by PI 3-kinase, Akt, and ILK and activation of a caspase-dependent proapoptotic pathway. Inhibits the basal activity of LCK and its activation in response to TCR stimulation and TCR-induced activation of MAP kinase and surface expression of CD69. Inhibits TCR-induced tyrosine phosphorylation of LAT and ZAP70. Inhibits both basal activity of DOK1 and its CD2-induced tyrosine phosphorylation. Induces dephosphorylation of p130cas, focal adhesion kinase and c-Src. Reduces migratory activity of Jurkat cells. {ECO:0000269|PubMed:11278335, ECO:0000269|PubMed:12101188, ECO:0000269|PubMed:12837766, ECO:0000269|PubMed:15850787}.

Molecular Weight: 40.0 kDa Including tag.

UniProt: [Q9HD43](#)

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

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