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EPB41 Protein (AA 1-858) (His tag)





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Overview

Quantity:	1 mg
Target:	EPB41
Protein Characteristics:	AA 1-858
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EPB41 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:

MTTEKSLAAE AENSQHQQQK EEGEGATNSG QQETQLEEAS QAAAAEGSDQ GEQKLKASNG DTPTHEDLTK NKERTSESRG LSRLLSSFLK RPKSQVSEEE GREVESEKEK GEGGQKEIEL GNSLDEDIIL KAPIAAPEPE LKTDPSLDLH SLSSIETQPA QEEHREDPDS ETKEGEGIEE CSGTEVKEDP ESRAEREPEA SQKPVRRHRN MHCKVSLLDD TVYECVVEKH AKGQDLLKRV CEHLNLLEED YFGLALWDSA TSKTWLDSAK EIKKQVRGVP WNFTFNVKFY PPDPAQLTED ITRYYLCLQL RQDIVAGRLP CSFATLALLG SYTIQSELGD YDPELHGMDY VSDFKLAPNQ TKELEEKVME LHKSYRSMTP AQADLEFLEN AKKLSMYGVD LHKAKDLEGV DIILGVCSSG LLVYKDKLRI NRFPWPKVLK ISYKRSSFFI KIRPGEQEHY ESTIGFKLPS YRAAKKLWKV CVEHHTFFRL TSTDTIPKSK FLALGSKFRY SGRTQAQTRQ ASALIDRPAP HFERTASKRA SRSLDGAAAA ESTDRSPRPT SAPAIAQSQV TEGPGAPIKK TPKEAVKVEE KRGEEPAEPA EPEPTEAWKV EKTHTEVTVP TSNGDQTQKL AGKGEDLIRM RKKKRERLDG ENIYIRHSNL MLEDLDKSQE EIKKHHASIS ELKKNFMESV PEPRPSEWDK RLSTHSPFRT LNINGQVPTG

DGPPLVKTQT VTISDTANAV KSEIPTKDVP IVHTETKTIT YEAAQTEDSN GDLDPGVLLT AQTITSETTS STTTTQITKT VKGGISETRI EKRIVITGDA DIDHDQVLVQ AIKEAKEQHP DMSVTKVVVH OETEISEE

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 Epb41 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.
- 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

Product Details Endotoxin Level: Protein is endotoxin free. Grade: Crystallography grade Target Details FPB41 Target: Alternative Name: Epb41 (EPB41 Products) Background: Protein 4.1 is a major structural element of the erythrocyte membrane skeleton. It plays a key role in regulating membrane physical properties of mechanical stability and deformability by stabilizing spectrin-actin interaction. Recruits DLG1 to membranes (By similarity). {ECO:0000250}. Molecular Weight: 96.9 kDa Including tag. UniProt: P48193 **Application Details** In addition to the applications listed above we expect the protein to work for functional studies 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. -80 °C Storage: Store at -80°C. Storage Comment:

Unlimited (if stored properly)

Expiry Date:

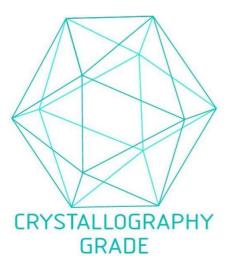


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process