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Datasheet for ABIN3133144
PTBP1 Protein (AA 1-527) (His tag)

1 Image

Overview

Quantity:	1 mg
Target:	PTBP1
Protein Characteristics:	AA 1-527
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PTBP1 protein is labelled with His tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS), Crystallization (Crys)

Product Details

Sequence: MDGIVPDIIV GTKRGSDELV STCVSNGPFI MSSSASAANG NDSKKFKGDN RSAGVPSRVI
HVRKLPDVT EGEVSLGLP FGKVTNLLML KGKNQAFIEM NTEEAANTMV NYYTSVAPVL
RGQPIYIQFS NHKELKTDSS PNQVRAQAAL QAVNSVQSGN LALAASAAAV DAGMAMAGQS
PVLRIIVENL FYPVTLDLVH QIFSKFGTVL KIITFTKNNQ FQALLQYADP VSAQHAKLSL
DGQNIYNACC TLRIDFSKLT SLNVKYNNDK SRDYTRPDLP SGDSQPSLDQ TMAAAFGLSV
PNVHGALAPL AIPSAASAAAA ASRIAIPGLA GAGNSVLLVS NLNPERVTPQ SLFILFGVYG
DVQRVKILFN KKENALVQMA DGSQAQLGEP PERAQAAREV SAHYTVQASE CAAAREGQED
QGLTKDYGSS PLRFKPKPGSK NFQNIFFPSA TLHLSNIPPS VSEDDLKSLF SSNGGVKGF
KFFQKDRKMA LIQMGSVEEA VQALIELHNN DLGENHHLRV SFSKSTI

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

Product Details

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Ptp1 Protein (raised in E. Coli) 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 bacterial culture:

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:

Endotoxin has not been removed. Please contact us if you require endotoxin removal.

Grade:

Crystallography grade

Target Details

Target:	PTBP1
Alternative Name:	Ptbp1 (PTBP1 Products)
Background:	Plays a role in pre-mRNA splicing and in the regulation of alternative splicing events. Activates exon skipping of its own pre-mRNA during muscle cell differentiation. Binds to the polypyrimidine tract of introns. May promote RNA looping when bound to two separate polypyrimidine tracts in the same pre-mRNA. May promote the binding of U2 snRNP to pre-mRNA. Cooperates with RAVR1 to modulate switching between mutually exclusive exons during maturation of the TPM1 pre-mRNA. Represses the splicing of MAPT/Tau exon 10.
Molecular Weight:	57.4 kDa Including tag.
UniProt:	P17225
Pathways:	Regulation of Muscle Cell Differentiation

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:	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.
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