

Datasheet for ABIN3113551

MPL Protein (AA 26-635) (MBP tag,His tag)

3 Images

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Overview

Quantity:	1 mg
Target:	MPL
Protein Characteristics:	AA 26-635
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MPL protein is labelled with MBP tag,His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA, Crystallization (Crys)

Product Details

Sequence:	<p>MKTEEGKLVI WINGDKGYNG LAEVGKKFEK DTGIKVTVEH PDKLEEKFPQ VAATGDGPDI IFWAHDRFGG YAQSGLLAEI TPDKAFQDKL YPFTWDAVRY NGKLIAYPIA VEALSLIYNK DLLPNPPKTW EEIPALDKEL KAKGKSALMF NLQEPYFTWP LIAADGGYAF KYENGKYDIK DVGVDNAGAK AGLTFLVDLI KNKHMNADTD YSIAEAAFNK GETAMTINGP WAWSNIDTSK VNYGVTVLPT FKGQPSKPFV GVLSAGINAA SPNKELAKEF LENYLLTDEG LEAVNKDKPL GAVALKSYEE ELAKDPRIAA TMENAQKGEI MPNIPQMSAF WYAVRTAVIN AASGRQTVDE ALKDAQTGGG SGGGSENL YF QSAAASFVAG VIRRLDETVV NRIAAGEVIQ RPANA KEMI ENCLDAKSTS IQVIVKEGGL KLIQIQDN GT GIRKEDLDIV CERFTTSKLQ SFEDLASIST YGFRGEALAS ISHVAHVTIT TKTADGKCAY RASYS DGK LK APPKPCAGNQ GTQITVEDLF YNIATRRKAL KNPSEEGYGI LEVVG RYSVH NAGISFSVKK QGETVADV RT LPNASTVDNI RSIFGNAVSR ELIEIGCEDK TLA FKMNGYI SNANYSVKKC I FLLFINHRL VESTSLRKAI ETVYAAYLPK NTHPFLYLSL EISPQNVDVN VHPTKHEVHF LHEESILERV QQHIESKLLG</p>
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SNSSRMYFTQ TLLPGLAGPS GEMVKSTTSL TSSSTSGSSD KVYAHQMVRT DSREQKLDAP
LQPLSKPLSS QPQAIPTEDK TDISSGRARQ QDEEMLELPA PAEVAANKQS LEGDTTKGTS
EMSEKRGPTS SNPRKRHRED SDVEMVEDDS RKEMTAACTP RRRRIINLTSV LSLQEEINEQ
GHEVLREMLH NHSFVGCVNP QWALAQHQT K LYLLNTTKLS EELFYQILIY DFANFGVLRL
SEPAPLFDLA MLALDSPESG WTEEDGPKEG LAEYIVEFLK KKAEMLADYF SLEIDEEGNL
IGLPLLIDNY VPPLEGLPIF ILRLATEVNW DEEKECFESL SKECAMFYSI RKQYISEEST
LSGQQSEVPG SIPNSWKWTV EHIVYKALRS HILPPKHFE DGNILQLANL PDLYKVFERC
GSSGHHHHHH

Specificity: N-terminal MBP-Tag, C-terminal His-Tag

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Human MPL 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 made-to-order protein has already been successfully produced. Please let us know if you are interested in purchasing a smaller amount of this protein. We will check our stock and make you a customized quote in case we can provide this protein in a smaller amount..

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: Three step purification of membrane proteins expressed in baculovirus infected SF9 insect cells:

1. Membrane proteins are fractionated by ultracentrifugation and subsequently solubilized with different detergents (detergent screen). Samples are analyzed by Western blot.
2. The best performing detergent is used for solubilization and the proteins are purified via their rho1D4 tag via two rho1D4 antibody columns: one DTT resistant, the other one not. Eluate fractions are analyzed by Western blot.
3. 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.

Product Details

Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin-free.
Grade:	Crystallography grade

Target Details

Target:	MPL
Alternative Name:	MPL (MPL Products)
Background:	Receptor for thrombopoietin. May represent a regulatory molecule specific for TPO-R-dependent immune responses.
Molecular Weight:	69.7 kDa Including tag.
UniProt:	P40238
Pathways:	JAK-STAT 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 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:	20 mM HEPES, pH 7.5; 150 mM NaCl
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 1.

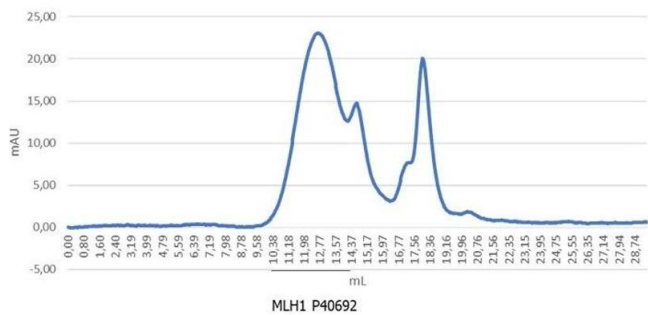
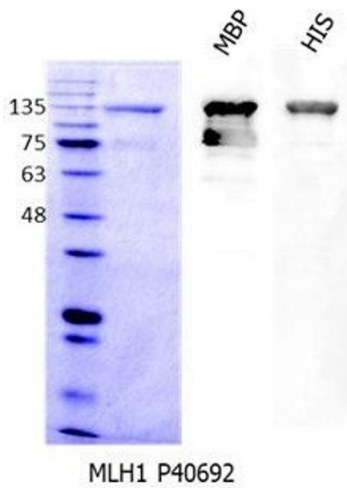


Image 2. „Crystallography Grade“ protein due to multi-step, protein-specific purification process



Western Blotting

Image 3.