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Datasheet for ABIN3135251

TDRD5 Protein (AA 1-1040) (His tag)

1 Image

Overview

Quantity:	1 mg
Target:	TDRD5
Protein Characteristics:	AA 1-1040
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TDRD5 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MSEQERIQDC LRKEIRSLLI STKDGLTPQQ LEKEYLLMVG NHLPLRILGY RSTMELVLDM
 PDVVSVCPPG DGTVILKAIP DESTKGIASL VAKQRRSHKV RNSMPKGRPS ICSGRVPYRG
 RVPPILPAVV KSELKDLLAL SPVLLSDFEK AFARRFGRSF QYMQYGF LSM FEVLNAASDV
 ISVEQTRAGS LLTLKKS VSE DKQRGW PAKG VFTQPFRMKQ QGSYSTGFPV MKAHFSQPIS
 NMEPPKQVLS MAKTPTFNSV EASRLNHTEK LNQLESTFKS VIAQIGPGGT VDPELKRRIQ
 FVSKFPQGL FISKLLGEFE LTFKEQLSPK QLGFLNVT EL VGALSDILRV EFSEERQDLL
 VFDADLKPLP SGGPLSSVRN SCLVQPKKT EANPWTSSLS RNSLSTVAVK KTTWDCPLKN
 QKEPEQKIYK KPNLVVKPLQ LQVETNKPQL SLSVANHDIP PDAVRAKKLC RLPLDSTL
 VGVFVEYIIS PSQFYIRIYS RDSSELLEDM MIEMRRCYSN QLVSDRYIMP EYFIQPGHLC
 CVKISEDKWW YRVIIHRILG KKEVEVFYPD FGNIGTVQKS SLRFLKCCYT KLPAQAIPCS
 LAWVRPAEEH WTARAILHFQ KLCGLKPLVG VVDEYIDGIL NIFLCDTSSN EDVYFHHVLR
 TEGHAIVCRE NAPSKGFRDF NPPALYTNAS SAGDMVLTDL GHPAQQHYLN EDQEILQQAQ

QDINDGKCIS YLKSAPKELL KDSKLSSLKT HKSCEEDPRW SILQPKDLKE ENEDEVPTGM
PCLESVTIGD DVWDENWLPL QAKMGKAGSP ASQLFTSNLV GKKQYQTGGE MAQKDWCFST
SKDIWDDSWQ PLGLANDVKG GIHTPEGPIA QEKNTSTTRI QQQPDLQYPL DSSTLPKLEE
FYISLIKSQQ SAERSQSEPA SIQTHAGRAA SKALSSTPAV GDSPENHSGS VESSPGSLKK
EDVSNRAEA TAKDKSQGAI DQLSFILSPQ HQISQKLYIP RSTATAVLGA AARLATSRSL
LHWYPSVKGG KLEAERDGVK

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 Tdrd5 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.

Product Details

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:	TDRD5
Alternative Name:	Tdrd5 (TDRD5 Products)
Background:	Required during spermiogenesis to participate in the repression transposable elements and prevent their mobilization, which is essential for the germline integrity. Probably acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and govern the methylation and subsequent repression of transposons. Required for chromatoid body (CB) assembly. {ECO:0000269 PubMed:21383078}.
Molecular Weight:	117.0 kDa Including tag.
UniProt:	Q5VCS6
Pathways:	Ribonucleoprotein Complex Subunit Organization

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

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)

Images



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