

Datasheet for ABIN3096143 TTI1 Protein (AA 1-1089) (His tag)



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Overview

Quantity:	1 mg
Target:	TTI1
Protein Characteristics:	AA 1-1089
Origin:	Human
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TTI1 protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MAVFDTPEEA FGVLRPVCVQ LTKTQTVENV EHLQTRLQAV SDSALQELQQ YILFPLRFTL KTPGPKRERL IQSVVECLTF VLSSTCVKEQ ELLQELFSEL SACLYSPSSQ KPAAVSEELK LAVIQGLSTL MHSAYGDIIL TFYEPSILPR LGFAVSLLLG LAEQEKSKQI KIAALKCLQV LLLQCDCQDH PRSLDELEQK QLGDLFASFL PGISTALTRL ITGDFKQGHs IVVSSLKIFY KTVSFIMADE QLKRIKSVQA KPAVEHRVAE LMVYREADWV KKTGDKLTIL IKKIIECVSV HPHWKVRLEL VELVEDLLK CSQSLVECAG PLLKALVGLV NDESPEIAQ CNKVLRRHFAD QKVVVGKAL ADILSESLHS LATSPLRLMN SQDDQGKFST LSLLLGYLKL LGPKINFVLN SVAHLQRLSK ALIQVLELDV ADIKIVEERR WNSDDLNASP KTSATQPWNR IQRRYFRFFT DERIFMLLRQ VCQLLGYGN LYLLVDHFME LYHQSVVYRK QAAMILNELV TGAAGLEVED LHEKHIKTNP EELREIVTSI LEEYTSQENW YLVTCLETEE MGEELMMEHP GLQAITSGEH TCQVTSFLAF SKPSPTICSM NSNIWQICIQ LEGIGQFAYA LGKDFCLLLM SALYPVLEKA GDQTLNISQV ATSTMMDVCR ACGYDSLQHL INQNSDYLVN GISLNLRLHLA LHPHTPKVLE
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VMLRNSDANL LPLVADVVDQ VLATLDQFYD KRAASFVSVL HALMAALAQW FPDGTGNLGH
QEQLSGEEGS HLNQRPAALE KSTTTAEDIE QFLNLYLKEK DVADGNVSDF DNEEEEQSVP
PKVDENDTRP DVEPPLPLQI QIAMDVMERC IHLLSDKNLQ IRLKVLDVLD LCVVWLQSHK
NQLLPLAHQA WPSLVHRLTR DAPLAVLRAF KVLRTLGSKC GDFLRSRFCK DVLPLKAGSL
VTQAPISARA GPVYSHTLAF KLQLAVLQGL GPLCERLDLG EGDNLKVADA CLIYLSVKQP
VKLQEAARSV FLHLMKVDPD STWFLNELY CPVQFTPPHP SLHPVQLHGA SGQQNPYTTN
VLQLLKELQ

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.
- Human TTI1 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

Product Details

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:	TTI1
Alternative Name:	TTI1 (TTI1 Products)
Background:	<p>Regulator of the DNA damage response (DDR). Part of the TTT complex that is required to stabilize protein levels of the phosphatidylinositol 3-kinase-related protein kinase (PIKK) family proteins. The TTT complex is involved in the cellular resistance to DNA damage stresses, like ionizing radiation (IR), ultraviolet (UV) and mitomycin C (MMC). Together with the TTT complex and HSP90 may participate in the proper folding of newly synthesized PIKKs. Promotes assembly, stabilizes and maintains the activity of mTORC1 and mTORC2 complexes, which regulate cell growth and survival in response to nutrient and hormonal signals.</p> <p>{ECO:0000269 PubMed:20427287, ECO:0000269 PubMed:20801936, ECO:0000269 PubMed:20810650}.</p>
Molecular Weight:	123.0 kDa Including tag.
UniProt:	O43156

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)

Images



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