

Datasheet for ABIN3095807

TAO Kinase 3 Protein (TAOK3) (AA 1-898) (His tag)



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1 Image

Overview

| | |
|-------------------------------|--|
| Quantity: | 1 mg |
| Target: | TAO Kinase 3 (TAOK3) |
| Protein Characteristics: | AA 1-898 |
| Origin: | Human |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This TAO Kinase 3 protein is labelled with His tag. |
| Application: | ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys) |

Product Details

| | |
|-----------|--|
| Sequence: | <p>MRKGVLDPE IADLFYKDDP EELFIGLHEI GHGSFGAVYF ATNAHTSEVV AIKKMSYSGK</p> <p>QTHEKWQDIL KEVKFLRQLK HPNTIEYKGC YLKEHTAWLV MEYCLGSASD LLEVHKKPLQ</p> <p>EVEIAITHG ALHGLAYLHS HALIHRDIKA GNILLTEPGQ VKLADFGSAS MASPANSFVG</p> <p>TPYWMAPEVI LAMDEGQYDG KVDIWSLGIT CIELAERKPP LFNMNAMSAL YHIAQNDSP</p> <p>LQSNWTDSEF RRFVDYCLQK IPQERPTSAE LLRHDFVRRD RPLRVLIDLI QRTKDAVREL</p> <p>DNLQYRKMKK ILFQETRNGP LNESQEDEED SEHGTSLNRE MDSLGSNHSI PSMSVSTGSQ</p> <p>SSSVNSMQEV MDESSSELVM MHDDESTINS SSSVVHKKDH VFIRDEAGHG DPRPEPRPTQ</p> <p>SVQSQUALHYR NRERFATIKS ASLVTRQIHE HEQENELREQ MSGYKRMRRQ HQKQLIALEN</p> <p>KLKAEMDEHR LKLQKEVETH ANNSSIELEK LAKKQVAIIE KEAKVAAADE KKFQQQILAQ</p> <p>QKKDLTTFLE SQKKQYKICK EKIKEEMNED HSTPKKEKQE RISKHKENLQ HTQAEEEAHL</p> <p>LTQQRLYYDK NCRFFFRKIM IKRHEVEQQN IREELNKKRT QKEMEAMLI RHDESTRELE</p> <p>YRQLHTLQKL RMDLIRLQHQ TELENQLEYN KRRERELHRK HVMELRQQPK NLKAMEMQIK</p> |
|-----------|--|

KQFQDTCKVQ TKQYKALKNH QLEVTPKNEH KTILKTLKDE QTRKLAILAE QYEQSINEMM
ASQALRLDEA QEAECQALRL QLQQEMELLN AYQSKIKMQT EAQHERELQK LEQRVSLRRA
HLEQKIEEEL AALQKERSER IKNLLERQER EIETFDMESL RMGFGNLVTL DFPKEDYR

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 TAO3 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.

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

Target: TAO Kinase 3 (TAOK3)

Alternative Name: TAOK3 ([TAOK3 Products](#))

Background: Serine/threonine-protein kinase that acts as a regulator of the p38/MAPK14 stress-activated MAPK cascade and of the MAPK8/JNK cascade. Acts as an activator of the p38/MAPK14 stress-activated MAPK cascade. In response to DNA damage, involved in the G2/M transition DNA damage checkpoint by activating the p38/MAPK14 stress-activated MAPK cascade, probably by mediating phosphorylation of upstream MAP2K3 and MAP2K6 kinases. Inhibits basal activity of MAPK8/JNK cascade and diminishes its activation in response epidermal growth factor (EGF). {ECO:0000269|PubMed:10559204, ECO:0000269|PubMed:10924369, ECO:0000269|PubMed:17396146}.

Molecular Weight: 106.4 kDa Including tag.

UniProt: [Q9H2K8](#)

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.

Handling

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