Datasheet for ABIN3132808

MAPT Protein (AA 2-733) (His tag)

Go to Product page

Overview

Quantity:	1 mg
Target:	MAPT
Protein Characteristics:	AA 2-733
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAPT protein is labelled with His tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB), Crystallization (Crys)

Product Details

Sequence:	ADPRQEFDTM EDHAGDYTLL QDQEGDMDHG LKESPPQPPA DDGAEEPGSE TSDAKSTPTA EDVTAPLVDE RAPDKQAAAQ PHTEIPEGIT AEEAGIGDTP NQEDQAAGHV TQGRREGQAP DLGTSDWTRQ QVSSMSGAPL LPQGLREATC QPSGTRPEDI EKSHPASELL RRGPPQKEGW GQDRLGSEEE VDEDLTVDES SQDSPPSQAS LTPGRAAPQA GSGSVCGETA SVPGLPTEGS VPLPADFFSK VSAETQASQP EGPGTGPMEE GHEAAPEFTF HVEIKASTPK EQDLEGATVV GVPGEEQKAQ TQGPSVGKGT KEASLQEPPG KQPAAGLPGR PVSRVPQLKA RVASKDRTGN DEKKAKTSTP SCAKAPSHRP CLSPTRPTLG SSDPLIKPSS PAVSPEPATS PKHVSSVTPR NGSPGTKQMK LKGADGKTGA KIATPRGAAS PAQKGTSNAT RIPAKTTPSP KTPPGSGEPP KSGERSGYSS PGSPGTPGSR SRTPSLPTPP TREPKKVAVV RTPPKSPSAS KSRLQTAPVP MPDLKNVRSK IGSTENLKHQ PGGGKVQIIN KKLDLSNVQS KCGSKDNIKH VPGGGSVQIV YKPVDLSKVT SKCGSLGNIH HKPGGGQVEV KSEKLDFKDR VQSKIGSLDN ITHVPGGGNK KIETHKLTFR ENAKAKTDHG AEIVYKSPVV SGDTSPRHLS NVSSTGSIDM VDSPQLATLA

Product Details

	DEVSASLAKQ GL **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 Mapt 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 receival 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
Endotoxin Level:	Protein is endotoxin free.

Product Details

Grade:	Crystallography grade

Target Details

Target:	MAPT
Alternative Name:	Mapt (MAPT Products)
Background:	Promotes microtubule assembly and stability, and might be involved in the establishment and maintenance of neuronal polarity. The C-terminus binds axonal microtubules while the N-terminus binds neural plasma membrane components, suggesting that tau functions as a linker protein between both. Axonal polarity is predetermined by tau localization (in the neuronal cell) in the domain of the cell body defined by the centrosome. The short isoforms allow plasticity of the cytoskeleton whereas the longer isoforms may preferentially play a role in its stabilization.
Molecular Weight:	77.1 kDa Including tag.
UniProt:	P10637
Pathways:	MAPK Signaling, Microtubule Dynamics, M Phase, Regulation of Cell Size

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 gurantee 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

Handling

Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)