

Datasheet for ABIN3095808 MAPT Protein (AA 2-758) (His tag)



Overview

| Quantity: | 1 mg |
|-------------------------------|--|
| Target: | MAPT |
| Protein Characteristics: | AA 2-758 |
| Origin: | Human |
| Source: | Insect Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This MAPT protein is labelled with His tag. |
| Application: | ELISA, Western Blotting (WB), SDS-PAGE (SDS), Crystallization (Crys) |

Product Details

| Sequence: | AEPRQEFEVM EDHAGTYGLG DRKDQGGYTM HQDQEGDTDA GLKESPLQTP TEDGSEEPGS |
|-----------|---|
| | ETSDAKSTPT AEDVTAPLVD EGAPGKQAAA QPHTEIPEGT TAEEAGIGDT PSLEDEAAGH |
| | VTQEPESGKV VQEGFLREPG PPGLSHQLMS GMPGAPLLPE GPREATRQPS GTGPEDTEGG |
| | RHAPELLKHQ LLGDLHQEGP PLKGAGGKER PGSKEEVDED RDVDESSPQD SPPSKASPAQ |
| | DGRPPQTAAR EATSIPGFPA EGAIPLPVDF LSKVSTEIPA SEPDGPSVGR AKGQDAPLEF |
| | TFHVEITPNV QKEQAHSEEH LGRAAFPGAP GEGPEARGPS LGEDTKEADL PEPSEKQPAA |
| | APRGKPVSRV PQLKARMVSK SKDGTGSDDK KAKTSTRSSA KTLKNRPCLS PKHPTPGSSD |
| | PLIQPSSPAV CPEPPSSPKY VSSVTSRTGS SGAKEMKLKG ADGKTKIATP RGAAPPGQKG |
| | QANATRIPAK TPPAPKTPPS SGEPPKSGDR SGYSSPGSPG TPGSRSRTPS LPTPPTREPK |
| | KVAVVRTPPK SPSSAKSRLQ TAPVPMPDLK NVKSKIGSTE NLKHQPGGGK VQIINKKLDL |
| | SNVQSKCGSK DNIKHVPGGG SVQIVYKPVD LSKVTSKCGS LGNIHHKPGG GQVEVKSEKL |
| | DFKDRVQSKI GSLDNITHVP GGGNKKIETH KLTFRENAKA KTDHGAEIVY KSPVVSGDTS |

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| | PRHLSNVSST GSIDMVDSPQ LATLADEVSA SLAKQGL |
|------------------|---|
| | 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 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: |
| | 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. |
| | 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. |

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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/MAPT 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. {ECO:0000269 PubMed:21985311}. |
| Molecular Weight: | 79.8 kDa Including tag. |
| UniProt: | P10636 |
| 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: | 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 |

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

Expiry Date:

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