

Datasheet for ABIN7544944
UAP1 Protein (AA 1-522) (His tag)



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Overview

Quantity:	1 mg
Target:	UAP1
Protein Characteristics:	AA 1-522
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This UAP1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant UAP1 Protein expressed in mammalian cells.
Sequence:	<p>MNINDLKLTL SKAGQEHLR FWNELEEAQQ VELYAEQAM NFEELNFFFQ KAIEGFNQSS HQKNVDARME PVPREVLGSA TRDQDQLQAW ESEGLFQISQ NKVAVLLLAG GQGTRLGVAY PKGMYDVGLP SRKTLFQIQA ERILKLQQVA EKYYGNKCII PWYIMTSGRT MESTKEFFTK HKYFGLKKEN VIFFQQGMLP AMSFDGKIIL EEKNKVSMAP DGNGLYRAL AAQNIVEDME QRGIWSIHVY CVDNILVKVA DPRFIGFCIQ KGADCGAKVV EKTNPTEPVG VVCRVDGVYQ VVEYSEISLA TAQKRSSDGR LLFNAGNIAN HFFTVPFLRD VVNVYEPQLQ HHVAQKKIPY VDTQGQLIKP DKPNGIKMEK FVFDIFQFAK KFVVYEVLR DEFSPKLNAD SQNGKDNPTT ARHALMSLHH CWVLNAGGHF IDENGSRIPA IPRSATNGKS ETITADVNHN LKDANDVPIQ CEISPLISYA GEGLESYVAD KEFHAPLIID ENGVHELKVN GI Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</p>

Product Details

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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 try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

Target Details

Target: UAP1

Alternative Name: UAP1 ([UAP1 Products](#))

Background: UDP-N-acetylhexosamine pyrophosphorylase (Antigen X) (AGX) (Protein-pyrophosphorylation enzyme) (EC 2.7.4.-) (Sperm-associated antigen 2) (UDP-N-acetylgalactosamine pyrophosphorylase) (EC 2.7.7.83) (UDP-N-acetylglucosamine pyrophosphorylase) (EC 2.7.7.23),FUNCTION: Catalyzes the last step in biosynthesis of uridine diphosphate-N-acetylglucosamine (UDP-GlcNAc) by converting UTP and glucosamine 1-phosphate (GlcNAc-1-P) to the sugar nucleotide (PubMed:9603950, PubMed:9765219). Also converts UTP and galactosamine 1-phosphate (GalNAc-1-P) into uridine diphosphate-N-acetylgalactosamine (UDP-GalNAc) (PubMed:9765219). In addition to its role in metabolism, acts as a regulator of innate immunity in response to virus infection by mediating pyrophosphorylation of IRF3: catalyzes pyrophosphorylation of IRF3 phosphorylated at 'Ser-386' by TBK1, promoting IRF3 dimerization and activation, leading to type I interferon responses (PubMed:36603579).

Target Details

{ECO:0000269|PubMed:36603579, ECO:0000269|PubMed:9603950, ECO:0000269|PubMed:9765219}., FUNCTION: [Isoform AGX1]: Isoform AGX1 has 2 to 3 times higher activity towards galactosamine 1-phosphate (GalNAc-1-P).
{ECO:0000269|PubMed:9765219}., FUNCTION: [Isoform AGX1]: Isoform AGX2 has 8 times more activity towards glucosamine 1-phosphate (GlcNAc-1-P).
{ECO:0000269|PubMed:9765219}.

Molecular Weight: 58.8 kDa

UniProt: [Q16222](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition 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: 12 months