

Datasheet for ABIN7563194
TAP2 Protein (AA 1-702) (His tag)



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Overview

Quantity:	1 mg
Target:	TAP2
Protein Characteristics:	AA 1-702
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TAP2 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant Tap2 Protein expressed in mammalian cells.
Sequence:	<p>MALSYLRPWV SLLLADMALL GLLQGSLGNL LPQGLPGLWI EGTLR LGVLW GLLKVGELLG LVGTLLPLLC LATPLFFSLR ALVGGTASTS VVRVASASWG WLLAGYGAVA LSWAVWAVLS PAGVQEKEPG QENRTLMKRL LKLSRPDLPF LIAAFFFLVV AVWGETLIPR YSGRVIDILG GDFDPDAFAS AIFFMCLFSV GSSFSAGCRG GSFLFTMSRI NLRIREQLFS SLLRQDLGFF QETKTGELNS RLSSDTSLMS RWLPFNANIL LRSLVKVVG L YFFMLQVSPR LTFLSLLDLP LTIAAEKVYN PRHQAVLKEI QDAVAKAGQV VREAVGGLQT VRSFGAEEQE VSHYKEALER CRQLWRRDL EKDVYLVIRR VMALGMQVLI LNCGVQQILA GEVTRGGLLS FLLYQEEVGQ YVRNLVYMYG DMLSNVGAAE KVFSYLDRKP NLPQPGILAP PWLEGRVEFQ DVSFSYPRRP EKPVLQGLTF TLHPGTVTAL VGPNGSGKST VAALLQNLQYQ PTGGQLLLDG EPLTEYDHHY LHRQVVLVGQ EPVLFSGSVK DNIAYGLRDC EDAQVMAAAQ AACADDFIGE MTNGINTEIG EKGGQLAVGQ KQRLAIARAL VRNPRVLILD EATSALDAQC EQALQNWRSQ GDRTMLVIAH RLHTVQNADQ VLVLKQGR LV EHDQLRDGQD VYAHLVQQRL EA Sequence without tag. The</p>

Product Details

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.

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: TAP2

Alternative Name: Tap2 ([TAP2 Products](#))

Background: Antigen peptide transporter 2 (APT2) (EC 7.4.2.14) (ATP-binding cassette sub-family B member 3) (Histocompatibility antigen modifier 2),FUNCTION: ABC transporter associated with antigen processing. In complex with TAP1 mediates unidirectional translocation of peptide antigens from cytosol to endoplasmic reticulum (ER) for loading onto MHC class I (MHCI) molecules. Uses the chemical energy of ATP to export peptides against the concentration gradient. During the transport cycle alternates between 'inward-facing' state with peptide binding site facing the cytosol to 'outward-facing' state with peptide binding site facing the ER lumen. Peptide antigen binding to ATP-loaded TAP1-TAP2 induces a switch to hydrolysis-competent 'outward-facing'

Target Details

conformation ready for peptide loading onto nascent MHCI molecules. Subsequently ATP hydrolysis resets the transporter to the 'inward facing' state for a new cycle. As a component of the peptide loading complex (PLC), acts as a molecular scaffold essential for peptide-MHCI assembly and antigen presentation. {ECO:0000250|UniProtKB:Q03519}.

Molecular Weight: 77.4 kDa

UniProt: [P36371](#)

Pathways: [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Human Leukocyte Antigen \(HLA\) in Adaptive Immune Response](#)

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