Recombinant Human TAP1, His-tagged

Cat. No. TAP1-3512H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Antigen peptide transporter 1 (TAP1)
Species	Human
Source	E.Coli/Yeast
ProteinLength	808
Description	The membrane-associated protein encoded by this gene is a member of the superfamily of ATP-binding cassette (ABC) transporters. ABC proteins transport various molecules across extra- and intra-cellular membranes. ABC genes are divided into seven distinct subfamilies (ABC1, MDR/TAP, MRP, ALD, OABP, GCN20, White). This protein is a member of the MDR/TAP subfamily. Members of the MDR/TAP subfamily are involved in multidrug resistance. The protein encoded by this gene is involved in the pumping of degraded cytosolic peptides across the endoplasmic reticulum into the membrane-bound compartment where class I molecules assemble. Mutations in this gene may be associated with ankylosing spondylitis, insulin-dependent diabetes mellitus, and celiac disease.
Form	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.
Purity	>90%
Notes	Small volumes of TAP1 recombinant protein may occasionally become entrapped in

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	the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice.
Storage	Store at -20 degree C. For extended storage, store at -20 or -80 degree C.
Storage Buffer	PBS pH 7.4, 50% glycerol
Warning	This product is for research use only. Not for use in diagnostic or therapeutic procedures.

GENE INFORMATION

Gene Name	TAP1 transporter 1, ATP-binding cassette, sub-family B (MDR/TAP) [Homo sapiens]
Official Symbol	TAP1
Synonyms	TAP1; transporter 1, ATP-binding cassette, sub-family B (MDR/TAP); ABCB2; antigen peptide transporter 1; D6S114E; PSF1; RING4; ABC transporter, MHC 1; peptide supply factor 1; peptide transporter PSF1; peptide transporter TAP1; really interesting new gene 4 protein; ATP-binding cassette sub-family B member 2; transporter associated with antigen processing; peptide transporter involved in antigen processing 1; ATP-binding cassette, sub-family B (MDR/TAP), member 2; transporter, ATP-binding cassette, major histocompatibility complex, 1; APT1; ABC17; PSF-1; TAP1N; TAP1*0102N; FLJ26666; FLJ41500;
Gene ID	6890
mRNA Refseq	NM_000593
Protein Refseq	NP_000584

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MIM	170260
UniProt ID	Q03518
Chromosome Location	6p21.3
Pathway	ABC transporters, organism-specific biosystem; ABC transporters, conserved biosystem; Adaptive Immune System, organism-specific biosystem; Antigen Presentation: Folding, assembly and peptide loading of class I MHC, organism-specific biosystem; Antigen pro
Function	ADP binding; ATP binding; ATPase activity; ATPase activity, coupled to transmembrane movement of substances; MHC class I protein binding; TAP1 binding; TAP1 binding; TAP2 binding; TAP2 binding; nucleotide binding; oligopeptide-transporting ATPase activity; peptide antigen binding; peptide antigen binding; contributes_to peptide transporter activity; peptide transporter activity; protein binding; protein heterodimerization activity; protein homodimerization activity; tapasin binding; transporter activity;

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