

Recombinant Human HLA-B Associated Transcript 1, His-tagged

Cat. No. BAT1-789H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human BAT1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques. MW = 51.1 (448aa), confirmed by MALDI-TOF.
Species	Human
Source	E.coli
Description	BAT1, also known as UAP56, is a member of the DEAD box family of RNA-dependent ATPases that mediate ATP hydrolysis during pre-mRNA splicing. This protein is an essential splicing factor required for association of U2 small nuclear ribonucleoprotein with pre-mRNA, and also plays an important role in mRNA export from the nucleus to the cytoplasm. Mutations in this protein may be associated with rheumatoid arthritis.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MAENDVDNEL LDYEDDEVET AAGGDGAEAP AKKDVKGSYV SIHSSGFRDF LLKPELLRAI VDCGFEHPSE VQHECIPQAI LGMDVLCQAK SGMGKTAVFV LATLQQLEPV TGQVSVLVMC HTRELAFAQIS KEYERFSKYM PNVKVAFFFG GLSIKKDEEV LKKNCPIHVV GTPGRILALA RNKSLNLKHI KHFILDECDK MLEQLDMRRD VQEIFRMTPH EKQVMMFSAT LSKEIRPVCR KFMQDPMEIF VDDETKLTLH GLQQYYVKLK DNEKNRKLFD LLDVLEFNQV VIFVKSQRC IALAQLLVEQ NFPAIAIHRG MPQEERLSRY QQFKDFQRR I LVATNLFGRG MDIERVNIAF NYDMPEDSDT YLHRVARAGR

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FGTKGLAITF VSDENDAKIL NDVQDRFEVN ISELPDEIDI SSYIEQTR

Purity	> 90% by SDS – PAGE.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol 0.1M NaCl,1mM DTT.
Concentration	0.5 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	BAT1 HLA-B associated transcript 1 [Homo sapiens]
Synonyms	BAT1; HLA-B associated transcript 1; UAP56; D6S81E; DDX39B; BAT1; spliceosome RNA helicase BAT1; OTTHUMP00000029231; OTTHUMP00000165890; DEAD box protein UAP56; DEAD-box protein UAP56; ATP-dependent RNA helicase p47; 56 kDa U2AF65-associated protein; nuclear RNA helicase (DEAD family); HLA-B-associated transcript 1 protein; DEAD (Asp-Glu-Ala-Asp) box polypeptide 39B; EC 3.6.1.-; EC 3.6.4.13
Gene ID	7919
mRNA Refseq	NM_004640
Protein Refseq	NP_004631
MIM	142560
UniProt ID	Q13838

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Chromosome Location	6p21.3
Pathway	Spliceosome
Function	ATP binding; ; ATP-dependent RNA helicase activity; ATP-dependent protein binding; RNA binding; RNA-dependent ATPase activity; U4 snRNA binding; U6 snRNA binding; helicase activity; hydrolase activity; identical protein binding; nucleotide binding; protein binding
PDB rendering based on 1t5i.	