

Recombinant Human STAU1, His-tagged

Cat. No. STAU1-30858TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 329-496 of Human Staufen with an N terminal His tag. Predicted MWt: 19 kDa;
Species	Human
Source	E.coli
ProteinLength	329-496 a.a.
Description	Staufen is a member of the family of double-stranded RNA (dsRNA)-binding proteins involved in the transport and/or localization of mRNAs to different subcellular compartments and/or organelles. These proteins are characterized by the presence of multiple dsRNA-binding domains which are required to bind RNAs having double-stranded secondary structures. The human homologue of staufen encoded by STAU, in addition contains a microtubule- binding domain similar to that of microtubule-associated protein 1B, and binds tubulin. The STAU gene product has been shown to be present in the cytoplasm in association with the rough endoplasmic reticulum (RER), implicating this protein in the transport of mRNA via the microtubule network to the RER, the site of translation. Five transcript variants resulting from alternative splicing of STAU gene and encoding three isoforms have been described. Three of these variants encode the same isoform, however, differ in their 5UTR.
Conjugation	HIS
Tissue specificity	Widely expressed. Expressed in brain, pancreas, heart, skeletal muscles, liver, lung,

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	kidney and placenta.
Form	Lyophilised:Reconstitute with 99 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	HQQLPAGILPMVPEVAQAVGVSQGHHTKDFTRAAPNPAKA TVTAMIARELLYGGTS PTAETILKNNISSGHVPHGPLT RPSEQLDYLSRVQGFQVEYKDFPKNNKNEFVSLIN CSSQP PLISHGIGKDVESCHDMAALNILKLLSELDQQSTEMPR TGNGPMSVCGRC
Sequence Similarities	Contains 3 DRBM (double-stranded RNA-binding) domains.

GENE INFORMATION

Gene Name	STAU1 staufen, RNA binding protein, homolog 1 (Drosophila) [Homo sapiens]
Official Symbol	STAU1
Synonyms	STAU1; staufen, RNA binding protein, homolog 1 (Drosophila); STAU, staufen (Drosophila, RNA binding protein) , staufen, RNA binding protein (Drosophila); double-stranded RNA-binding protein Staufen homolog 1;
Gene ID	6780
mRNA Refseq	NM_001037328
Protein Refseq	NP_001032405

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MIM	601716
Uniprot ID	O95793
Chromosome Location	20q13.1
Function	double-stranded RNA binding; protein binding;

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