

## Recombinant Human TALDO1, His-tagged

**Cat. No.** TALDO1-31154TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human Transaldolase 1 with an N terminal His tag; 357 amino acids including tag, predicted MWt 39.7kDa. (
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	337 amino acids
<b>Description</b>	<p>Transaldolase 1 is a key enzyme of the nonoxidative pentose phosphate pathway providing ribose-5-phosphate for nucleic acid synthesis and NADPH for lipid biosynthesis. This pathway can also maintain glutathione at a reduced state and thus protect sulfhydryl groups and cellular integrity from oxygen radicals. The functional gene of transaldolase 1 is located on chromosome 11 and a pseudogene is identified on chromosome 1 but there are conflicting map locations. The second and third exon of this gene were developed by insertion of a retrotransposable element. This gene is thought to be involved in multiple sclerosis.</p>
<b>Conjugation</b>	HIS
<b>Molecular Weight</b>	39.700kDa inclusive of tags
<b>Form</b>	Liquid
<b>Purity</b>	>90% by SDS-PAGE

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<b>Storage buffer</b>	Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, pH 8.0
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Sequences of amino acids</b>	<p>MGSSHHHHHSSGLVPRGSHMSSSPVKRQRMESALDQLKQFTTVVADTGDFHAID  EYKPQDATTNPSLILAAAQMPAYQELVEEAIAYGRKLGGSEQEDQIKNAIDKLVLFGA  EILKKIPGRVSTEV DARLSFDK DAMVARARRLIELYKEAGISKDRILIKLSSTWEGIQAG  KELEEQHG IHCNMTLLFSFAQAVACAEAGVTLISPFVGRILDWHVANTDKKSYEPLE  DPGVKSVTKIYNYKKFSYKTIVMGASFRNTGEIKALAGCDFLTISP KLLGELLQD NAK  LVPVLSAKAAQASDLEKIHLDEKSFRWLHNEDQMAVEKLSDGIRKFAADAVKLERML  TERMFNAENGK</p>

## GENE INFORMATION

<b>Gene Name</b>	TALDO1 transaldolase 1 [ Homo sapiens ]
<b>Official Symbol</b>	TALDO1
<b>Synonyms</b>	TALDO1; transaldolase 1; transaldolase;
<b>Gene ID</b>	6888
<b>mRNA Refseq</b>	NM_006755
<b>Protein Refseq</b>	NP_006746
<b>MIM</b>	602063
<b>Uniprot ID</b>	P37837

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<b>Chromosome Location</b>	11p15.5-p15.4
<b>Pathway</b>	Insulin effects increased synthesis of Xylulose-5-Phosphate, organism-specific biosystem; Integration of energy metabolism, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of carbohydrates, organism-specific biosystem;
<b>Function</b>	monosaccharide binding; sedoheptulose-7-phosphate:D-glyceraldehyde-3-phosphate glyceronetransferase activity; transferase activity;

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