

Recombinant Human TALDO1, His-tagged

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

SPECIFICATION

Product Overview	Recombinant full length Human Transaldolase 1 with an N terminal His tag; 357 amino acids including tag, predicted MWt 39.7kDa. (
Species	Human
Source	E.coli
ProteinLength	337 amino acids
Description	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.
Conjugation	HIS
Molecular Weight	39.700kDa inclusive of tags
Form	Liquid
Purity	>90% by SDS-PAGE

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Storage buffer	Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMSSSPVKRQRMESALDQLKQFTTVVADTGDFHAID EYKPQDATTNPSLILAAAQMPAYQELVEEAIAAYGRKLGGSQEDQIKNAIDKLFVLFGA EILKKIPGRVSTEVDARLSFDKAMDVARARRLIELYKEAGISKDRILIKLSSTWEGIQAG KELEEQHGHIHCNMTLLFSFAQAVACAEAGVTLISPFVGRILDWHVANTDKKSYEPLE DPGVKSVTKIYNNYKKFSYKTIVMGASFRNTGEIKALAGCDFLTISPKLLGELLQDNAK LVPVLSAKAAQASDLEKIHLDEKSFRWLHNEDQMAVEKLSDGIRKFAADAVKLERML TERMFNAENGK

GENE INFORMATION

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

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Chromosome Location	11p15.5-p15.4
Pathway	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;
Function	monosaccharide binding; sedoheptulose-7-phosphate:D-glyceraldehyde-3-phosphate glyceronetransferase activity; transferase activity;

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