

Product datasheet for PH304049

Transaldolase 1 (TALDO1) (NM_006755) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	TALDO1 MS Standard C13 and N15-labeled recombinant protein (NP_006746)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204049
Predicted MW:	37.5 kDa
Protein Sequence:	>RC204049 protein sequence Red=Cloning site Green=Tags(s)

MSSSPVKRQRMESALDQLKQFTTVVADTGFHAIIDEYKPDATTNPSLILAAAQMPAYQELVEEAIAYGR
KLGGSQEDQIKNAIDKLFVLFGAIEILKKIPGRVSTEVDARLSFDKAMVARARRLIELYKEAGISKDRIL
IKLSSTWEGIQAGKELEEQHGHIHCNMTLLFSFAQAVACAEAGVTLISPFVGRILDWHVANTDKKSYEPL
DPGVKSVTKIYNYYKKFSYKTIVMGASFRNTGEIKALAGCDFLTISP KLLGELLQDNAKLVPLSAKAAQ
ASDLEKIHLDKESFRWLHNEQMAVEKLSDGIRKFAADAVKLERMLTERMFNAENGK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_006746</u>
RefSeq Size:	1319
RefSeq ORF:	1011
Synonyms:	TAL; TAL-H; TALDOR; TALH
Locus ID:	6888



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UniProt ID: [P37837](#), [A0A140VK56](#)

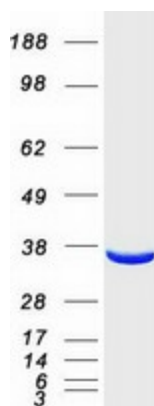
Cytogenetics: 11p15.5

Summary: 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. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Pentose phosphate pathway

Product images:



Coomassie blue staining of purified TALDO1 protein (Cat# [TP304049]). The protein was produced from HEK293T cells transfected with TALDO1 cDNA clone (Cat# [RC204049]) using MegaTran 2.0 (Cat# [TT210002]).