
Product Data Sheet

Product Name: TALDO1 Human

Cat. No.: GP22279

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	TAL; TAL-H; TALDOR; TALH; TALDO1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSHMSSSPVKRQR MESALDQLKQ FTTVVADTGD FHAIDEYKPQ DATTNPSLIL AAAQMPAYQE LVEEAIAYGR KLGGSQEDQIKNAIDKLFVL FGAEILKKIP GRVSTVDAR LSFDKDAMVA RARRLIELYK EAGISKDRIL IKLSSTWEGIQAGKELEEQH GIHCNMTLLF SFAQAVACAE AGVTLISPFV GRILDWHVAN TDKKSYEPLE DPGVKSVTKI YNYYKKFSYKTIVMGASFRN TGEIKALAGC DFLTISPKLL GELLQDNAKL VPVLSAKAAQ ASDLEKIHLD EKFRWLHNEQMAVEKLSG GIRKFAADAV KLERMLTERM FNAENGK.		
Formulation	TALDO1 1mg/ml protein solution contains 20 mM Tris-HCl buffer (pH 8.0) and 10% glycerol.		

Introduction

TALDO1 is a important enzyme of the non-oxidative pentose phosphate pathway supplying ribose-5-phosphate for nucleic acid synthesis and NADPH for lipid biosynthesis. TALDO1 delivers a dihydroxyacetone group from donor compounds (fructose 6-phosphate or sedoheptulose 7-phosphate) to aldehyde acceptor compounds. TALDO1 is expressed at selectively great levels in oligodendrocytes of the brain. TALDO1 Deficiency results in accumulation of erythritol, D-arabitol, and ribitol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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TALDO1 Human Recombinant protein produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 357 amino acids (1-337) and having a molecular mass of 39.7 kDa. TALDO1 is fused to 20 amino acid His Tag at N-terminus and is purified by proprietary chromatographic techniques.

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