

Recombinant Human TSTA3, T7-tagged

Cat. No. TSTA3-2896H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant HumanTSTA3 (1-321 aa) is expressed in E.Coli with a T7 tag at N-terminus.
Species	Human
Source	E.coli
ProteinLength	1-321 a.a.
Description	TSTA3 is a NADP (H)-binding protein. It catalyzes the two-step epimerase and the reductase reactions in GDP-D-mannose metabolism, converting GDP-4-keto-6-D-deoxymannose to GDP-L-fucose. GDP-L-fucose is the substrate of several fucosyltransferases involved in the expression of many glycoconjugates, including blood group ABH antigens and developmental adhesion antigens. Mutations in this gene may cause leukocyte adhesion deficiency, type II.
MW	35893 Da.
Purity	95%.
Formulation	10 mM Tris. pH 8.0. 0.1% Triton X-100.0.002% NaN3.
Application	MS. SDS.

GENE INFORMATION

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Gene Name	TSTA3 tissue specific transplantation antigen P35B [Homo sapiens]
Synonyms	TSTA3; tissue specific transplantation antigen P35B; 3-5 epimerase/4-reductase; GDP-4-keto-6-deoxy-D-mannose epimerase-reductase; GDP-4-keto-6-deoxy-D-mannose-3,5-epimerase-4-reductase; GDP-L-fucose synthase; Tissue-specific transplantation antigen-3; protein FX; red cell NADP(H)-binding protein; short chain dehydrogenase/reductase family 4E, member 1; short-chain dehydrogenase/reductase family 4E member 1; tissue specific transplantation antigen 3; FX; P35B; SDR4E1; EC 1.1.1.271
Gene ID	7264
mRNA Refseq	NM_003313
Protein Refseq	NP_003304
MIM	137020
UniProt ID	Q13630
Chromosome Location	8q24.3
Pathway	Amino sugar and nucleotide sugar metabolism;Fructose and mannose metabolism;Metabolic pathways
Function	GDP-4-dehydro-D-rhamnose reductase activity; GDP-L-fucose synthase activity; catalytic activity; electron carrier activity; oxidoreductase activity