

## Recombinant Human TSTA3, T7-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human TSTA3 (1-321 aa) is expressed in E.Coli with a T7 tag at N-terminus.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Protein Length</b>	1-321 a.a.
<b>Description</b>	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.
<b>MW</b>	35893 Da.
<b>Purity</b>	95%.
<b>Formulation</b>	10 mM Tris. pH 8.0. 0.1% Triton X-100.0.002% NaN <sub>3</sub> .
<b>Application</b>	MS. SDS.

### GENE INFORMATION

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<b>Gene Name</b>	TSTA3 tissue specific transplantation antigen P35B [ Homo sapiens ]
<b>Synonyms</b>	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
<b>Gene ID</b>	7264
<b>mRNA Refseq</b>	NM_003313
<b>Protein Refseq</b>	NP_003304
<b>MIM</b>	137020
<b>UniProt ID</b>	Q13630
<b>Chromosome Location</b>	8q24.3
<b>Pathway</b>	Amino sugar and nucleotide sugar metabolism;Fructose and mannose metabolism;Metabolic pathways
<b>Function</b>	GDP-4-dehydro-D-rhamnose reductase activity; GDP-L-fucose synthase activity; catalytic activity; electron carrier activity; oxidoreductase activity

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