

Recombinant Human TSTA3, His-tagged

Cat. No. TSTA3-2763H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TSTA3 protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques.
Species	Human
Source	<i>E.coli</i>
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.
Purity	> 90% by SDS – PAGE.
Sequences	MGSSHHHHHH SSGLVPRGSH MGEPQGSMRI LVTGGSGLVG KAIQKVADG AGLPGEDWVF VSSKDADLTD TAQTRALFEK VQPTHVIHLA AMVGGLFRNI KYNLDFWRKN VHMNDNVLHS AFEVGARKVV SCLSTCIFPD KTTYPIDETM IHNGPPHNSN FGYSYAKRMI DVQNRAYFQQ YGCTFTAVIP TNVFGPHDNF NIEDGHVLPG LIHKVHLAKS SGSALTWWGT GNPRRQFIYS LDLAQLFIWV LREYNEVEPI ILSVGEEDEV SIKEAAEAVV EAMDFHGEVT FDTTKSDGQF KKTASNSKLR TYLPDFRFTP FKQAVKETCA WFTDNYEQAR K.
Molecular Weight	38.0 kDa (341aa) confirmed by MALDI-TOF.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 2mM DTT, 50mM NaCl.
Concentration	0.5 mg/ml (determined by Bradford assay).
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

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	8q24.3

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Location	
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

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