

Tissue Specific Transplantation Antigen P35B Recombinant Protein | TSTA3 recombinant protein

Recombinant Human Tissue Specific Transplantation Antigen P35B

CATALOG # AAA38825	HOST E Coli
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PRODUCT SYNONYMS

Tissue Specific Transplantation Antigen P35B; Recombinant Human Tissue Specific Transplantation Antigen P35B; TSTA3 Human; Tissue Specific Transplantation Antigen P35B Human Recombinant; FX; P35B; SDR4E1; GDP-L-fucose synthase; Protein FX; TSTA3 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90.0% as determined by SDS-PAGE.
Form/Format	0.5mg/ml solution containing 20mM Tris pH-8, 2mM DTT, 50mM NaCl & 10% glycerol. Sterile filtered colorless solution.
Sequence	MGSSHHH HHHSSGLVPR GSHMGE PQGSMRILVT GSGSLVGKAI QKVVADGAGL PGEDWVSVSS KDADLTDTAQ TRALFEKVQP THVIHLAAMV GGLFRNIKYN LDFWRKNVHM NDNVLHSAFE VGARKVVSCL STCIFPDKTT YPIDETMIHN GPPHNSNFGY SYAKRMIDVQ NRAYFQQYGC TFTAVIPTNV FGPHDNFNIE DGHVLPGLIH KVHLAKSSGS ALTVWGTGNP RRQFIYSLDL AQLFIWVLRE YNEVEPIILS VGEEDVSIK EAAEAVVEAM DFHGEVTFDT TKSDGQFKKT ASNSKLRTYL PDFRFTPFKQ AVKETCAWFT DNYEQARK.
Sequence Length	321
Preparation and Storage	TSTA3 Human although stable at 4C for 1 week, should be stored desiccated below -18C. Please prevent freeze thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for TSTA3 recombinant protein	Description: TSTA3 Recombinant Human produced in E Coli is a single, non-glycosylated polypeptide chain containing 341 amino acids (1-321 a.a.) and having a molecular mass of 38 kDa. The TSTA3 is fused to 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques. Introduction: TSTA3 is a NADP(H)-binding protein. TSTA3 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 numerous fucosyltransferases that take part in the expression of several glycoconjugates, including blood group ABH antigens and developmental adhesion antigens. Mutations in TSTA3 result in leukocyte adhesion deficiency, type II.
Product Categories/Family for TSTA3 recombinant protein	Enzymes; Synthase

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507709
NCBI GeneID	7264
NCBI Accession #	NP_003304.1
NCBI GenBank Nucleotide #	NM_003313.3
UniProt Accession #	Q13630; Q567Q9; Q9UDG7; B2R8Y7; D3DWK5

Molecular Weight	35,893 Da
NCBI Official Full Name	GDP-L-fucose synthase
NCBI Official Synonym Full Names	tissue specific transplantation antigen P35B
NCBI Official Symbol	TSTA3
NCBI Official Synonym Symbols	FX; P35B; SDR4E1
NCBI Protein Information	GDP-L-fucose synthase; 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; red cell NADP(H)-binding protein; short chain dehydrogenase/reductase family 4E, member 1; tissue specific transplantation antigen 3
UniProt Protein Name	GDP-L-fucose synthase
UniProt Gene Name	TSTA3
UniProt Synonym Gene Names	SDR4E1
UniProt Entry Name	FCL_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/tsta3-recombinant-protein-e-coli/38825>