

## TSTA3 Human

**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.

**Catalog #:** ENPS-266

For research use only.

**Synonyms:** FX, P35B, SDR4E1, GDP-L-fucose synthase, Protein FX .

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGEPQGSMRI LVTGGSGLVG  
KAIQKVVDAG AGLPGEDWVF VSSKDADLTD TAQTRALFEK VQPTHVIHLA AMVGGLFRNI  
KYNLDFWRKN VHMNDNVLHS AFEVGARKVV SCLSTCIPD KTTYPIDETM IHNGPPHNSN  
FGYSYAKRMI DVQNRAYFQQ YGCTFTAVIP TNVFGPHDNF NIEDGHVLPGLIHKVHLAKS  
SGSALTWWGT GN

**Purity:** Greater than 90.0% as determined by SDS-PAGE.

**Formulation:**

0.5mg/ml solution containing 20mM Tris pH-8, 2mM DTT, 0.0.5M NaCl & 10% glycerol.

**Stability:**

TSTA3 Human although stable at 4C for 1 week, should be stored desiccated below -18C. Please prevent freeze thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**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.

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