
Product Data Sheet

Product Name: TSTA3 Human
 Cat. No.: GP22332
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	FX; P35B; SDR4E1; GDP-L-fucose synthase; Protein FX .		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSHMGEPQGSMRI LVTGGGSLVG KAIQKVVADG AGLPGEDWVF VSSKDADLTD TAQTRALFEK VQPTHVIHLAAMVGGFLFRNI KYNLDFWRKN VHMNDNVLHS AFEVGARKVV SCLSTCIFPD KTTYPIDETM IHNGPPHNSNFGYSYAKRMI DVQNRAYFQQ YGCTFTAVIP TNVFGPHDNF NIEDGHVLPGLIHKVHLAKS SGSALTVWGTGNPRRQFIYS LDLAQLFIWV LREYNEVEPI ILSVGEEDDEV SIKEAAEAVV EAMDFHGEVT FDTTKSDGQFKKTASNSKLR TYLPDFRFTP FKQAVKETCA WFTDNYEQAR K.		
Formulation	0.5mg/ml solution containing 20mM Tris pH-8, 2mM DTT, 50mM NaCl & 10% glycerol.		

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

TSTA3 Recombinant Human produced in E.Coli is a single, non-glycosylated polypeptide

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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