

AR09595PU-N

Human TSTA3 (1-321, His-tag) - Purified

Alternate names:

5-epimerase-4-reductase, GDP-4-keto-6-deoxy-D-mannose-3, GDP-L-fucose synthetase, Protein FX, Red cell NADP(H)-binding protein, SDR4E1, Short chain dehydrogenase/reductase family 4E member 1

Quantity:

0.1 mg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[Q13630](#)

NCBI:

[NP_003304](#)

GenelD:

[7264](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2 mM DTT, 50 mM NaCl

Description:

Recombinant human TSTA3 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGEPQGSMRI LVTGGSGLVG KAIQKVADG AGLPGEDWVF
VSSKDADLTD TAQTRALFEK VQPTHVIHLA AMVGGLFRNI KYNLDFWRKN VHMNDNLHS
AFEVGARKVV SCLSTCIPD KTTYPIDETM IHNGPPHNSN FGYSYAKRMI DVQNRAYFQQ
YGCTFTAVIP TNVFGPHDNF NIEDGHVLPD LIHKVHLAKS SGSALTVWGT GNPRRQFIYS
LDLAQLFIWV LREYNEVEPI ILSVGEDEV SIKEAAEAVV EAMDFHGEVT FDTTKSDGQF
KKTASNSKLR TYLPDFRFTP FKQAVKETCA WFTDNYEQAR K

Molecular weight: kDa (341aa) confirmed by MALDI-TOF

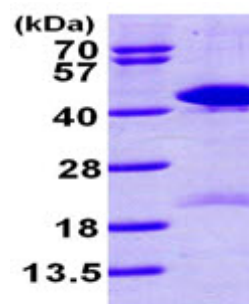
Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

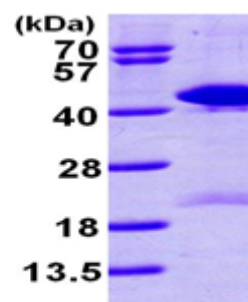
Shelf life: one year from despatch.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human TSTA3, 1-321aa, His-tagged



15% SDS-PAGE (3ug)