

Recombinant human Xg protein

Catalog Number: ATGP2005

PRODUCT INFORMATION

Expression system

E.coli

Domain

22-142aa

UniProt No.

P55808

NCBI Accession No.

NP_780778

Alternative Names

Glycoprotein Xg isoform 1 precursor, PBDX

PRODUCT SPECIFICATION

Molecular Weight

15.5 kDa (144aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

XG is the XG blood group antigen, and is at the pseudoautosomal boundary on the short (p) arm of chromosome X. The three 5' exons reside in the pseudoautosomal region and the remaining exons within the X-specific end. A truncated copy of this gene is found on the Y chromosome at the pseudoautosomal boundary. It is transcribed, but not expected to make a Y-chromosome specific gene product. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. Recombinant human XG protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

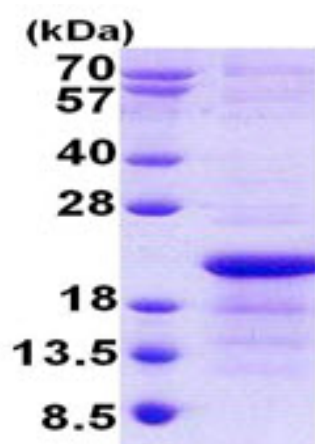
MGSSHHHHHH SGLVPRGSH MGSQRDFDLA DALDDPEPTK KPNSDIYKP KPPYYQPEN PDSGGNIYPR PKPRPQPQPG
NSGNSGGYFN DVDRDDGRYP PRPRRPPAG GGGGGYSSYG NSDNTHGGDH HSTYGNPEGN MVAK

General References

Gandouz,R., et al. (2008) *Transfus Clin Biol* 15 (4), 174-176
Fouchet,C., et al. (2000) *Immunogenetics* 51 (8-9), 688-694

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.