

Recombinant human ABO protein

Catalog Number: ATGP1185

PRODUCT INFORMATION

Expression system

E.coli

Domain

54-354aa

UniProt No.

P16442

NCBI Accession No.

NP_065202

Alternative Names

Histo-blood group ABO system transferase, A3GALNT, A3GALT1, GTB, NAGAT, A transferase, B transferase, Fucosylglycoprotein 3-alpha-galactosyltransferase, alpha 1-3-N-acetylgalactosaminyltransferase, alpha 1-3-galactosyltransferase

PRODUCT SPECIFICATION

Molecular Weight

37.4 kDa (322aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 200mM NaCl

Purity

> 85% 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

ABO, also known as NAGAT, belongs to the glycosyltransferase 6 family. This protein is the basis of the ABO blood group system and related to the first discovered blood group system, ABO. Which allele is present in an individual determines the blood group. The histo-blood group ABO involves three carbohydrate antigens: A, B, and H. A, B, and AB individuals express a glycosyltransferase activity that converts the H antigen to the A

Recombinant human ABO protein

Catalog Number: ATGP1185

antigen (by addition of uDP-GalNAc) or to the B antigen (by addition of uDP-Gal), whereas O individuals lack such activity. Recombinant human ABO protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

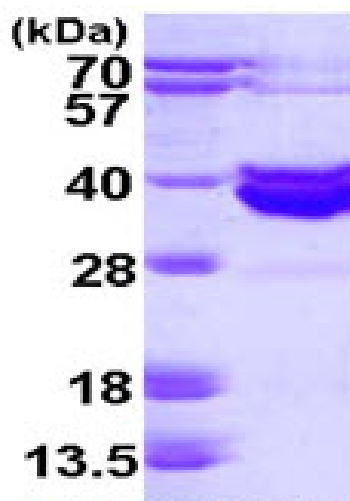
MGSSHHHHHH SGLVPRGSH MAVREPDHLQ RVSLPRMVYP QPKVLTPCRK DVLVVTPLWA PIVWEGTFNI DILNEQFRLQ
NTTIGLTVFA IKKYVAFLKL FLETAEKHFM VGHRVHYYVF TDQPAAVPRV TLGTGRQLSV LEVRAYKRWQ DVSMRRMEMI
SDFCERRFLS EVDYLVCDV DMEFRDHVGV EILTPLFGTL HPGFYGSSRE AFTYERRPQS QAYIPKDEGD FYYLGGFFGG
SVQEVQRLTR ACHQAMMVDQ ANGIEAVWHD ESHLNKYLLR HKPTKVLSP EYLWDQQLLGW PAVLRKLRFT
AVPKNHQAVR NP

General References

Persson M., et al. (2007) J. Biol. Chem. 282:9564-9570
Nydegger, u.E., et al. (2005) Ann. N.Y. Acad. Sci. 1050: 40-51.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)