

AR39127PU-L**Human ABO (54-354, His-tag) - Purified****Alternate names:**

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

Quantity:

0.25 mg

Concentration:

0.5 mg/ml (determined by Bradford assay)

Background:

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 antigen (by addition of UDP-GalNAc) or to the B antigen (by addition of UDP-Gal), whereas O individuals lack such activity.

Uniprot ID:[P16442](#)**NCBI:**[NP_065202](#)**GenelD:**[28](#)**Species:**

Human

Source:

E. coli

Format:**State:** Liquid purified protein**Purity:** >85%**Buffer System:** 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 200mM NaCl**Description:**

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

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MAVREPDHLQ RVSLPRMVYP QPKVLTPCRK DVLVVTPWLA
PIVWEGTFNI DILNEQFRLQ NTTIGLTVFA IKKYVAFLKL FLETAEKHFM VGH RVHYVVF
TDQPAAVPRV TLGTGRQLSV LEVRAYKRWQ DVSMRRMEMI SDFCERRFLS EVDYLVQVDV
DMEFRDHVGV EILTPLFGTL HPGFYGSSRE AFTYERRPQS QAYIPKDEGD FYYLGGFFGG
SVQEVQRLTR ACHQAMMVDQ ANGIEAVWHD ESHLNKYLLR HKPTKVLSP EYLWDQQLLGW
PAVLRKLRFT AVPKNHQAVR NP

Molecular weight: 37.4 kDa (322aa), 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.

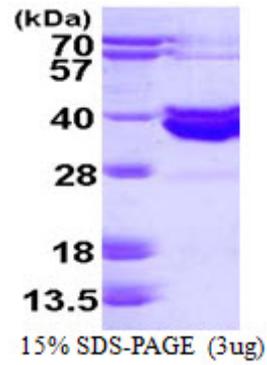
Shelf life: one year from despatch.

General Readings:

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.

Pictures:



Recombinant human ABO, 54-354aa, His-tagged

