

Product information

ABO, 54-354aa

Human, His-tagged, Recombinant, *E.coli*

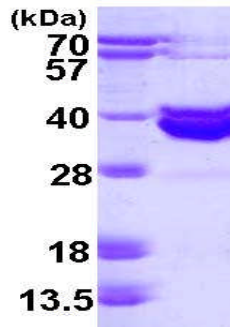
Cat. No. IBATGP1185

Full name: Histo-blood group ABO system transferase

NCBI Accession No.: NP_065202

Synonyms: A3GALNT, A3GALT1, GTB, NAGAT

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 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.

<p>Form: Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 20% glycerol, 200mM NaCl</p> <p>Molecular Weight: 37.4kDa (322aa), confirmed by MALDI-TOF</p> <p>Purity: > 85% by SDS - PAGE</p> <p>Concentration: 0.5mg/ml (determined by Bradford assay)</p>	
<p>Sequences of amino acids:</p> <p>MGSSHHHHH SSGLVPRGSH MAVREPDHLQ RVSLPRMVYP QPKVLTPCRK DVLVVTPLWA PIVWEGTFNI DILNEQFRLQ NTTIGLTVFA IKKYVAFLKL FLETAEKHFV VGHVHYHYVF TDQPAAVPRV TLGTGRQLSV LEVRAYKRWQ DVSMRMEMI SDFCERRFLS EVDYLCVVDV DMEFRDHVGV EILTPLFGTL HPGFYGSSRE AFTYERRPQS QAYIPKDEGD FYLLGGFFGG SVQEVQRLTR ACHQAMMVDQ ANGLEAVVHD ESHLNKYLLR HKPTKVLSPV YLWDQQLLGV PAVLRKLRFT AVPKNHQAVR NP</p>	

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.

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.