

## 32-2098: ABO Recombinant Protein

**Alternative Name :** Histo-blood group ABO system transferase, Fucosylglycoprotein 3-alpha-galactosyltransferase, Fucosylglycoprotein alpha-N-acetylgalactosaminyltransferase, Glycoprotein-fucosylgalactoside alpha-N-acetylgalactosaminyltransferase

### Description

Source : Escherichia Coli. ABO Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 322 amino acids (54-354 a.a) and having a molecular mass of 37.4kDa. ABO is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. NAGAT (ABO) is a member of the glycosyltransferase 6 family. The ABO protein is the basis of the ABO blood group system and related to the first discovered blood group system, ABO. The allele that is present in an individual determines the blood group. The histo-blood group ABO is comprised of 3 carbohydrate antigens: A, B, and H. A, B, and AB individuals express a glycosyltransferase activity which 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 are deficient of such activity.

### Product Info

**Amount :** 10 µg  
**Purification :** Greater than 85.0% as determined by SDS-PAGE.  
**Content :** ABO protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 20% glycerol and 200mM NaCl.  
**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.  
**Amino Acid :** MGSSHHHHH SSGLVPRGSH MAVREPDHLQ RVSLPRMVYP QPKVLTPCRK DVLVVPWLA  
 PIVWEGTFNI DILNEQFRLQ NTTIGLTVFA IKKYVAFLKL FLETAEKHFM VGHRVHYVVF TDQPAAVPRV  
 TLGTGRQLSV LEVRAYKRWQ DVSMRRMEMI SDFCERRFLS EVDYLVCDV DMEFRDHVGV EILTPLFGTL  
 HPGFYGSSRE AFTYERRPQS QAYIPKDEGD FYYLGGFFGG SVQEVQRLTR ACHQAMMVDQ  
 ANGIEAVWHD ESHLNKYLRL HKPTKVLSP YLWDQQLLGW PAVLRKLRFT AVPKNHQAVR NP.

