
Product Data Sheet

Product Name: ABO Human
 Cat. No.: GP21325
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Histo-blood group ABO system transferase; Fucosylglycoprotein 3-alpha-galactosyltransferase; Fucosylglycoprotein alpha-N-acetylgalactosaminyltransferase; Glycoprotein-fucosylgalactoside alpha-N-acetylgalactosaminyltransferase; Glycoprotein-fucosylgalactoside alpha-galactosyltransferase; Histo-blood group A transferase; A transferase; Histo-blood group B transferase; B transferase; NAGAT; ABO; GTB; A3GALNT; A3GALT1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MAVREPDHLQ RVSLPRMVYP QPKVLTPCRK DVLVTPWLA PIVWEGTFNI DILNEQFRLQ NTTIGLTVFA IKKYVAFLKL FLETAEKHFM VGHRVHYVVF TDQPAAVPRV TLGTGRQLSV LEVRAYKRWQ DVSMRRMEMI SDFCERRFLS EVDYLVCDV DMEFRDHVGV EILTPLFGTL HPGFYGSSRE AFTYERRPQS QAYIPKDEGD FYLGGFFGG SVQEVQLTR ACHQAMMVDQ ANGLEAVWHD ESHLNKYLLR HKPTKVLSPE YLWDQQLLW PAVLRKLRFT AVPKNHQAVR NP.		
Formulation	ABO protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 20% glycerol and 200mM NaCl.		

Introduction

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Stability

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.

Background

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.

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