

ABI3 Human

ABI Family, Member 3 Human Recombinant
RCP0005

Product Overview

Name ABI3 Human

Description

ABI Family, Member 3 Human Recombinant

Accession (Primary) [Q9P2A4](#)

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.

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.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered colorless solution.

Formulation

ABO protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 2mM DTT, 20% glycerol and 200mM NaCl.

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.

Purity

Greater than 85.0% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH M AVREPDHLQ RVSLPRMVYP QPKVLTPCRK DVLVVTPWLA PIVWEGTFNI

DILNEQFRLQ NTTIGLTVFA IKKYVAFLKL FLETAEKHFM VGHRVHYYVF TDQPAAVPRV TLGTGRQLSV
LEVRAYKRWQ DVSMRRMEMI SDFCERRFLS EVDYLCVDV DMEFRDHVGV EILTPLFGTL HPGFYGSSRE
AFTYERRPQS QAYIPKDEGD FYYLGGFFGG SVQEVQLRTR ACHQAMMVDQ ANGIEAVWHD ESHLNKYLLR
HKPTKVLSPY YLWDQQLLGW PAVLRKLRFT AVPKNHQAVR NP.

Precautions

ABI3 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: ([Q9P2A4](#))