
Product Data Sheet

Product Name: POFUT1 Human
 Cat. No.: GP22109
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	FUT12; O-Fuc-T; O-FucT-1; O-FUT; GDP-fucose protein O-fucosyltransferase 1; Peptide-O-fucosyltransferase 1; KIAA0180.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MSGSWDPAG YLLYCPCMGR FGNQADHFLG SLAFKLLNR TLAVPPWIEY QHHKPPFTNL HVSYQKYFKL EPLQAYHRVI SLEDFMEKLA PTHWPPEKRV AYCFEVAAQR SPDKKTCPMK EGNPFGPFWD QFHVSFNKSE LFTGISFSAS YREQWSQRFS PKEHPVLALP GAPAQFPVLE EHRPLQKYMV WSDVMVKTGE AQIHAHLVLRP YVGIHLRIGS DWKNACAMLK DGTAGSHFMA SPQCVGYSRS TAAPLTMTC LPDLKEIQRA VKLWVRS LDA QSVYVATDSE SYPELQQLF KGKVKVSLK PEVAQVDLYI LGQADHFIGN CVSSFTAFVK RERDLQGRPS SFFGMDRPPK LRDEF.		
Formulation	The POFUT1 solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 2M Urea and 10% glycerol.		

Introduction

GDP-fucose protein O-fucosyltransferase 1 (POUFUT1), belongs to the glycosyltransferase O-Fuc family. POUFUT1 encodes a member of the glycosyltransferase O-Fuc family and Expressed mainly in pancreas, kidney, lung, heart, brain, liver, placenta and skeletal muscle. POUFUT1 adds O-fucose through an O-glycosidic linkage to Preserve serine or threonine residues in the epidermal growth factor-like repeats of a number of cell surface and emitted proteins. POUFUT1 is involved in ligand-induced receptor signaling. Alternative splicing of this gene results in 2 transcript variants encoding different isoforms. POFUT1 participates in Notch signaling, as Notch ligands can use as POFUT1 substrates.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store. frozen at -20°C for longer

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

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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

POFUT1 Human Recombinant produced in E. coli is a single polypeptide chain containing 385 amino acids (27-388) and having a molecular mass of 43.7 kDa. POFUT1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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