

Recombinant Human POFUT1, His-tagged

Cat. No. POFUT1-7213H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human POFUT1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
description	GDP-fucose protein O-fucosyltransferase 1, also known as POUFUT1, is a member of the glycosyltransferase O-Fuc family. Highly expressed in pancreas, kidney, lung, heart, brain, liver, placenta and skeletal muscle, POFUT1 uses manganese to catalyze the attachment of fucose to a conserved serine or threonine residue on a protein accept. POFUT1 plays an important role in Notch signaling, as Notch ligands can serve as POFUT1 substrates.
source	E. coli
species	Human
tag	His
form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2M Urea, 10% glycerol
molecular mass	43.7kDa (385aa)
aa sequence	MGSSHHHHHH SSGLVPRGSH MSGSWDPAG YLLYCPCMGR FGNQADHFLG

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SLAFAKLLNR TLAVPPWIEY QHHKPPFTNL HVSYQKYFKL EPLQAYHRVI
 SLEDFMEKLA PTHWPPEKRV AYCFEVAAQR SPDKKTCPMK EGNPFGPFWD
 QFHVSFNKSE LFTGISFSAS YREQWSQRFS PKEHPVLALP GAPAQFPVLE
 EHRPLQKYMV WSDVMVKTGE AQIHAHLVRP YVGIHLRIGS DWKNACAMLK
 DGTAGSHFMA SPQCVGYRSR TAAPLTMTMC LPDLKEIQRA VKLWVRS LDA
 QSVYVATDSE SYVPELQQLF KGKVKVSLK PEVAQVDLYI LGQADHFIGN
 CVSSFTAFVK RERDLQGRPS SFFGMDRPPK LRDE

purity >85% by SDS - PAGE

applications SDS-PAGE

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.

concentration 1 mg/ml

GENE INFORMATION

gene name [POFUT1 protein O-fucosyltransferase 1 \[Homo sapiens \]](#)

official symbol POFUT1

synonyms POFUT1; protein O-fucosyltransferase 1; GDP-fucose protein O-fucosyltransferase 1; FUT12; KIAA0180; O Fuc T; O FUT; o-fucosyltransferase protein; peptide-O-fucosyltransferase 1; O-FUT; O-Fuc-T; O-FucT-1; MGC2482;

Gene ID [23509](#)

mrna refseq [NM_015352](#)

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protein refseq	NP_056167
mim	607491
uniprot id	Q9H488
chromosome location	20q11
pathway	Delta-Notch Signaling Pathway, organism-specific biosystem; Other types of O-glycan biosynthesis, organism-specific biosystem; Other types of O-glycan biosynthesis, conserved biosystem; Pre-NOTCH Expression and Processing, organism-specific biosystem; Pre-NOTCH Processing in the Endoplasmic Reticulum, organism-specific biosystem; Signal Transduction, organism-specific biosystem; Signaling by NOTCH, organism-specific biosystem;
function	fucosyltransferase activity; peptide-O-fucosyltransferase activity; transferase activity, transferring glycosyl groups;

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