

## Recombinant Human POFUT1, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant human POFUT1 protein, fused to His-tag at N-terminus, was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>description</b>	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.
<b>source</b>	E. coli
<b>species</b>	Human
<b>tag</b>	His
<b>form</b>	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2M Urea, 10% glycerol
<b>molecular mass</b>	43.7kDa (385aa)
<b>aa sequence</b>	MGSSHHHHHH SSGLVPRGSH MGSGSWDPAG YLLYCPCMGR FGNQADHFLG

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SLAFKLLNR TLAVPPWIEY QHHKPPFTNL HVSYQKYFKL EPLQAYHRVI  
 SLEDFMEKLA PTHWPPEKRV AYCFEVAAQR SPDKKTCPMK EGNPFGPFWD  
 QFHVSFNKSE LFTGISFSAS YREQWSQRFS PKEHPVLALP GAPAQFPVLE  
 EHRPLQKYMV WSDVMVKTGE AQIHAHLVRP YVGIHLRIGS DWKNACAMLK  
 DGTAGSHFMA SPQCVGYSRS 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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<b>protein refseq</b>	NP_056167
<b>mim</b>	607491
<b>uniprot id</b>	Q9H488
<b>chromosome location</b>	20q11
<b>pathway</b>	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;
<b>function</b>	fucosyltransferase activity; peptide-O-fucosyltransferase activity; transferase activity, transferring glycosyl groups;

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