

# Recombinant human O-fucosyltransferase 1/POFUT1 protein

Catalog Number: ATGP1913

## PRODUCT INFORMATION

**Expression system**

E.coli

**Domain**

27-388aa

**UniProt No.**

Q9H488

**NCBI Accession No.**

NP\_056167

**Alternative Names**

GDP-fucose protein O-fucosyltransferase 1, FuT12, O-Fuc-T, O-FucT-1, O-FuT

## PRODUCT SPECIFICATION

**Molecular Weight**

43.7 kDa (385aa)

**Concentration**

1mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2M urea, 10% glycerol

**Purity**

> 85% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE, Denatured

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

**Description**

GDP-fucose protein O-fucosyltransferase 1, also known as POFuT1, 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. Recombinant human POFuT1 protein, fused to His-tag at N-terminus, was expressed in E. coli.

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## Amino acid Sequence

<MGSSHHHHHH SGLVPRGSH MGS>GSWDPAG YLLYCPCMGR FGNQADHFLG SLAFKLLNR TLAVPPWIEY  
QHHKPPFTNL HVSQYQYFKL EPLQAYHRVI SLEDFMEKLA PTHWPPEKRV AYCFEVAAQR SPDKKTCPMK EGNPFGPFWD  
QFHVSFNKSE LFTGISFSAS YREQWSQRFS PKEHPVLALP GAPAQFPVLE EHRPLQKYMV WSDVMKTGE AQIHAHLVRP  
YVGIHLRIGS DWKNACAMLK DGTAGSHFMA SPQCVGYRS TAAPLTMTMC LPDLKEIQRA VKLWVRSLDA QSVYVATDSE  
SYVPELQQLF KGKVKVSLK PEVAQVDLYI LGQADHFIGN CVSSFTAFVK RERDLQGRPS SFFGMDRPPK LRDEF

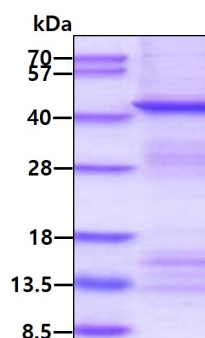
## General References

Wang Y., et al. (2001) J Biol Chem. 276:40338-40345.

Luo Y., et al. (2005) J Biol Chem. 280:11289-11294.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.