

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 SSGLVPRGSH MGS>GSWDPAG YLLYCPCMGR FGNQADHFLG SLAFKLLNR TLAVPPWIEY
QHHKPPFTNL HVSYQKYFKL EPLQAYHRVI SLEDFMEKLA PTHWPPEKRV AYCFEVAAQR SPDKKTCPMK EGNPFGPFWD
QFHVSFNKSE LFTGISFSAS YREQWSQRFS PKEHPVLALP GAPAQFPVLE EHRPLQKYMV WSDVMVKTGE AQIHAHLVRP
YVGIHLRIGS DWKNACAMLK DGTAGSHFMA SPQCVGYSRS TAAPLTMTC LPDLKEIQRA VKLWVRSLDA QSVYVATDSE
SYVPELQQLF KGKVKVSLK PEVAQVDLYI LGQADHFIGN CVSSFTAFVK RERDLQGRPS SFFGMDRPPK LRDEF

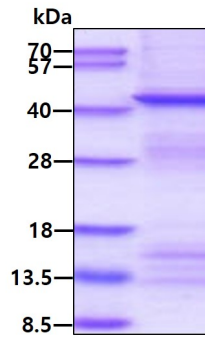
General References

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



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