

**POFUT1, 27-388aa Human, His tag, E.coli**

**Cat.NO.: TP03451**

3th Edition

**Synonyms:**GDP-fucose protein O-fucosyltransferase 1, FUT12, O-Fuc-T, O-FucT-1, O-FUT

**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. Recombinant human POFUT1 protein, fused to His-tag at N-terminus, was expressed in E.coli.

**Form:**Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 2M Urea, 10% glycerol

**Molecular Weight:**43.7kDa (385aa)

**Sequences:**

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MGSSHHHHHHSSGLVPRGSHMGSGSWDPAGYLLYCPCMGRFGNQADHFLGSLAFKLLNRTLAVPPWIEYQHH  
KPPFTNLHVSQYQYFKLEPLQAYHRVISLEDFMEKLAPTHWPPEKRVAYCFEVAQRSPDKKTCPMKEGNPFGPF  
WDQFHVSFNKSELFTGISFSASYREQWSQRFSPKEHPVLALPGAPAFVLEEHRPLQKYMVWSDEMVKTGAEQI  
HAHLVRPYVGIHLRIGSDWKNACAMLKDGTAGSHFMASPCVGYRSTAAPLTMCLPDLKEIQRAVKLWVRSL  
DAQSVYVATDSESYVPELQQLFKGKVKVSLKPEVAQVDLYILGQADHFIGNCVSSFTAFVKRERDLQGRPSSFFG  
MDRPPKLRDEF
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**Purity:**> 95% by HPLC

**Concentration:**1 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.