

Recombinant Human POFUT2, His-tagged

Cat. No. POFUT2-27511TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 196-429 of Human POFUT2 with N terminal His tag; Predicted MWt 28 kDa.
Species	Human
Source	E.coli
ProteinLength	196-429 a.a.
Description	Fucose is typically found as a terminal modification of branched chain glycoconjugates, but it also exists in direct O-linkage to serine or threonine residues within cystine knot motifs in epidermal growth factor (EGF; MIM 131530)-like repeats or thrombospondin (THBS; see MIM 188060) type-1 repeats. POFUT2 is an O-fucosyltransferase that use THBS type-1 repeats as substrates (Luo et al.
Conjugation	HIS
Tissue specificity	Isoform A is expressed in fetal liver and peripheral blood lymphocytes. Isoform B is expressed in spleen, lung, testis, bone marrow, thymus, pancreas, prostate, fetal brain, fetal liver and fetal kidney. Isoform C is expressed in brain, heart, spleen, liv
Form	Lyophilised:Reconstitute with 133 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	QGSASIVAPLLLRNTSARSVMLDRAENLLHDHYGGKEYWD TRRSMVFARHLREVG DEFRRSHLNSTDDADRIPFQEDW MKMKVKLGSGALGGPYLGVHLRRKDFIWGHRQD VPSLEG AVRKIRSLMKTHRLDKVVFATDAVRKEYEELKKLLPEM VRFEPTWEELEL YKDGGAVIDQWICAHARFFIGTSVSTF SFRIHEEREILGLDPKTTYNRFCGDQEKAC EQPTHWKI TY
Sequence Similarities	Belongs to the glycosyltransferase 68 family.

GENE INFORMATION

Gene Name	POFUT2 protein O-fucosyltransferase 2 [Homo sapiens]
Official Symbol	POFUT2
Synonyms	POFUT2; protein O-fucosyltransferase 2; C21orf80, chromosome 21 open reading frame 80; GDP-fucose protein O-fucosyltransferase 2; FUT13; KIAA0958;
Gene ID	23275
mRNA Refseq	NM_015227
Protein Refseq	NP_056042
MIM	610249
Uniprot ID	Q9Y2G5
Chromosome Location	21q22.3

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Pathway	Other types of O-glycan biosynthesis, organism-specific biosystem; Other types of O-glycan biosynthesis, conserved biosystem;
Function	peptide-O-fucosyltransferase activity; transferase activity, transferring glycosyl groups;

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