

Protein O-Fucosyltransferase 1 (POFUT1)

Product Information

Cat#	DIA-807
Descriptions	Protein O-Fucosyltransferase 1 (POFUT1) specifically transfers fucose to serine/threonine residues within EGF domains of target proteins such as Notch receptors, is essential for Notch signaling pathway activation, and regulates embryonic development and cell fate determination.
Applications	Protein O-Fucosyltransferase 1 (POFUT1) is applied in Notch pathway glycosylation detection kits and protein O-fucosylation assay reagent development.
CAS No.	24-1-22126
Enzyme Commission Number	EC 2.4.1.221
Enzyme Source	Trichoplusia ni, High Five (baculovirus)-derived human Protein O-Fucosyltransferase.
Reaction	$\text{GDP-beta-L-fucose} + \text{L-seryl-[protein]} = \text{3-O- (alpha-L-fucosyl)-L-seryl-[protein]} + \text{GDP} + \text{H}^+$
Activity Definition	Measured by its ability to hydrolyze the donor substrate GDP-fucose.