

Recombinant Full Length Human LFNG Protein

Cat. No. LFNG-286HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Lunatic Fringe, isoform 2 with N terminal proprietary tag; Predicted MW 53.24 kDa.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	250 amino acids
Description	This gene is a member of the fringe gene family which also includes radical and manic fringe genes. They all encode evolutionarily conserved glycosyltransferases that act in the Notch signaling pathway to define boundaries during embryonic development. While their genomic structure is distinct from other glycosyltransferases, fringe proteins have a fucose-specific beta-1,3-N-acetylglucosaminyltransferase activity that leads to elongation of O-linked fucose residues on Notch, which alters Notch signaling. This gene product is predicted to be a single-pass type II Golgi membrane protein but it may also be secreted and proteolytically processed like the related proteins in mouse and Drosophila (PMID: 9187150). Mutations in this gene have been associated with autosomal recessive spondylocostal dysostosis 3. Multiple transcript variants encoding different isoforms have been found for this gene.
Form	Liquid
Molecular Mass	53.240kDa inclusive of tags

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AA Sequence	MTPGRCCLAADIQVETFIPTDGEDEALARHTGNVVITNCS AAHSRQALSCKMAVEY DRFIESGRKWFCHVDDDNYVNLRA LLRLLASYPHTRDVYVGKPSLDRPIQAMERVS ENKVRPVH FWFATGGAGFCISRGLALKMSPWASGGHFMNTAERIRLPD DCTIGYIV EALLGVPLIRSGFLFHSLENLQQVPTSELHEQ VTLSYGMFENKRNAVHVKGPFVSVE ADPSRFRSIHCHLYPD TPWCPRTAIF
Purity	Proprietary Purification
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80 centigrade. Avoid freeze / thaw cycles.
Storage Buffer	pH: 8.00. Constituents:0.79% Tris HCl, 0.31% Glutathione.
GENE INFORMATION	
Gene Name	LFNG LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase [Homo sapiens]
Official Symbol	LFNG
Synonyms	LFNG; LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase; lunatic fringe (Drosophila) homolog , lunatic fringe homolog (Drosophila); beta-1,3-N-acetylglucosaminyltransferase lunatic fringe; SCDO3
Gene ID	3955
mRNA Refseq	NM_001040167
Protein Refseq	NP_001035257
MIM	602576

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UniProt ID

Q8NES3

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