Recombinant Human Fibrillarin Protein, GST-tagged

Cat. No. FBL-83H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Fibrillarin Protein (1-321) is produced by E. coli expression system. This protein is fused with a GST tag at the N-terminal.
Species	Human
Source	E.coli
ProteinLength	1-321
Description	Human recombinant fibrillarin (residues 2-321; Genbank Accession # NM_001436; MW= 61.3 kDa) expressed as an N-terminal GST-fusion protein in E. coli. Fibrillarin is a component of nucleolar ribonucleoprotein complexes including snoRNPs (small nucleolar ribonucleoproteins) and Cajal bodies. As part of the C/D snoRNPs, fibrillarin functions as the catalytic subunit in the 2'-O methylation of ribosomal RNAs1. In addition, fibrillarin has recently been shown to catalyze methylation of histone H2A glutamine-104, a modification restricted to the nucleolus and linked to RNA Pol I transcriptional activity on rDNA3. A distinct protein subcomplex comprising fibrillarin, SF2A-p32 and the argininine methyltransferases PRMT1 and PRMT5 has been described4 and fibrillarin's N-terminal glycine and arginine-rich (GAR) domain, including in the context of full-length fibrillarin5, is a substrate for various PRMTs.
Form	50 mM Tris HCl, pH 7.5, 500 mM NaCl, 1 mM TCEP, 10 % glycerol
Molecular Mass	60.3 kDa

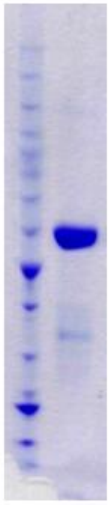
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Purity	>95% by SDS-PAGE
Notes	This product is NOT intended for therapeutic or diagnostic use in animals or in humans.
Storage	Store at -70 centigrade. Thaw quickly and store on ice before use. The remaining, unused, undiluted protein should be snap frozen, for example in a dry/ice ethanol bath or liquid nitrogen. Minimize freeze/thaws if possible, but very low volume aliquots (<5 µl) or storage of diluted protein is not recommended.

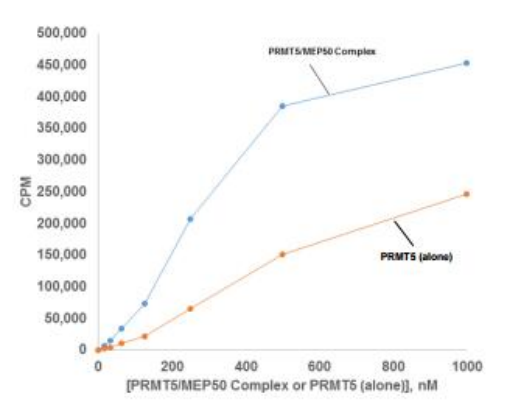
GENE INFORMATION

Gene Name	FBL fibrillarin [Homo sapiens]
Official Symbol	FBL
Synonyms	FBL; fibrillarin; FIB; FLRN; RNU3IP1;
Gene ID	2091
mRNA Refseq	NM_001436
Protein Refseq	NP_001427
MIM	134795
UniProt ID	P22087

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Coomassie bluestained SDS-PAGE (4-12% acrylamide) of 5 g of Fibrillarin (GST). MW markers (left) are, from top, 220, 160, 120, 100, 90, 80, 70, 60, 50, 40, 30, 25, 20, 15, & 10 kDa.



Methyltransferase Activity of PRMT5/MEP50 Complex and PRMT5 (alone) with Fibrillarin (GST). Methylation determined as TCA-precipitable counts in a scintillation/filter plate assay. Reactions were 25 µ, 60 min., 30

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centigrade, with 1 μM [3H]-SAM and 0.05 mg/mL Fibrillarin (GST).

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