

Recombinant Human POF1B Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. POF1B-2725H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	POF1B MS Standard C13 and N15-labeled recombinant protein (NP_079197) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	Premature ovarian failure (POF) is characterized by primary or secondary amenorrhea in women less than 40 years old. Two POF susceptibility regions called "POF1" and "POF2" have been identified by breakpoint mapping of X-autosome translocations. POF1 extends from Xq21-qter while POF2 extends from Xq13.3 to Xq21.1. This gene, POF1B, resides in the POF2 region. This gene is expressed at trace levels in mouse prenatal ovary and is barely detectable or absent from adult ovary, in human and in the mouse respectively. This gene's expression is restricted to epithelia with its highest expression in the epidermis, and oro-pharyngeal and gastro-intestinal tracts. The protein encoded by this gene binds non-muscle actin filaments. The role this gene may play in the etiology of premature ovarian failure remains to be determined.
Molecular Mass	67.9 kDa
AA Sequence	MSSSYWSETSSSSCGTQQLPEVLQCQPQHYHCYHQSSQAQQPPEKNVYERVRT YSGPMNKVVQALDPFNSREVLSPKTTSSYQNLVWSDHSQELHSPTLKISTCAPSTL

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HITQNTEQELHSPTVKLTTPQTITIRKYVVQNPEQEPLSQFLRGSHFFPGNNVIYEKT
 IRKVEKLNTDQGCHPQAQCHHHIIQQPQVIHSAHWQQPDSSQIQAITGNNPISTHIG
 NELCHSGSSQICEQVIIQDDGPEKLDPRYFGELLADLSRKNTDLYHCLLEHLQRIGGS
 KQDFESTDESEDIESLIPKGLSEFTKQQIRYILQMRGMSDKSLRLVLSTFSNIREELGH
 LQNDLTSLENDKMRLEKDLSEFKDTQLKEYEELLASVRANNHQQQGLQDSSSKCQ
 ALEENNLRLHTLSMEYRLKELEYCKRNLEQENQNLRMQVSETCTGPMLQAKMD
 EIGNHYTEMVKNLRMEKDREICRLRSQNLNQYHKDVSKREGSCSDFQFKLHELTSLE
 EKDSLIRQSEELSKLRQEIYSSHNQPSTGGRTTITTKKYRTQYPILGLLYDDYEYIPP
 GSETQTIVIEKTEDKYTCPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	POF1B POF1B actin binding protein [Homo sapiens (human)]
Official Symbol	POF1B
Synonyms	POF1B; premature ovarian failure, 1B; protein POF1B; FLJ22792; POF; premature ovarian failure protein 1B; POF2B;
Gene ID	79983

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mRNA Refseq	NM_024921
Protein Refseq	NP_079197
MIM	300603
UniProt ID	Q8WVV4

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