

Product datasheet for PH301740

EIF3F (NM_003754) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	EIF3F MS Standard C13 and N15-labeled recombinant protein (NP_003745)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201740
Predicted MW:	37.4 kDa
Protein Sequence:	>RC201740 representing NM_003754 Red=Cloning site Green=Tags(s) MATPAVPVSAPPATPTPVAAAAPASVPAPTAPAAAAPVAAAAPASSSDPAAAAAATAAPGQTPASAQAPA QTPAPALPGPALPGPFPGGRVVRLHPVILASIVDSYERRNEGAARVIGTLLGTVDKHSVEVTNCFVPHN ESEDEVAVDMEFAKNMYELHKKVSPNELILGWYATGHDITEHSVLIHEYYSREAPNPIHLTVDTSLQNGR MSIKAYVSTLMGVPGRTMGVMFTPLTVKYAYYDTERIGVDLIMKTCFSPNRVIGLSSDLQQVGGASARIQ DALSTVLQYAEDVLSGKVSADNTVGRFLMSLVNQPKIVPDDFETMLNSNINDLLMVTYLANLTQSQIAL NEKLVNL SGPTRRRRLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_003745</u>
RefSeq Size:	1274
RefSeq ORF:	1071
Synonyms:	eIF3-p47; EIF3S5; MRT67
Locus ID:	8665



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UniProt ID: [O00303](#)

Cytogenetics: 11p15.4

Summary: Component of the eukaryotic translation initiation factor 3 (eIF-3) complex, which is required for several steps in the initiation of protein synthesis (PubMed:17581632, PubMed:25849773, PubMed:27462815). The eIF-3 complex associates with the 40S ribosome and facilitates the recruitment of eIF-1, eIF-1A, eIF-2:GTP:methionyl-tRNA_i and eIF-5 to form the 43S pre-initiation complex (43S PIC). The eIF-3 complex stimulates mRNA recruitment to the 43S PIC and scanning of the mRNA for AUG recognition. The eIF-3 complex is also required for disassembly and recycling of post-termination ribosomal complexes and subsequently prevents premature joining of the 40S and 60S ribosomal subunits prior to initiation (PubMed:17581632). The eIF-3 complex specifically targets and initiates translation of a subset of mRNAs involved in cell proliferation, including cell cycling, differentiation and apoptosis, and uses different modes of RNA stem-loop binding to exert either translational activation or repression (PubMed:25849773).[UniProtKB/Swiss-Prot Function]

Protein Families: Druggable Genome

Product images:



Coomassie blue staining of purified EIF3F protein (Cat# [TP301740]). The protein was produced from HEK293T cells transfected with EIF3F cDNA clone (Cat# [RC201740]) using MegaTran 2.0 (Cat# [TT210002]).