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Product datasheet for PH307120

FHIT (NM_002012) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	FHIT MS Standard C13 and N15-labeled recombinant protein (NP_002003)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207120
Predicted MW:	16.9 kDa
Protein Sequence:	>RC207120 protein sequence Red=Cloning site Green=Tags(s) MSFRFGQHLIKPSVVFLKTELSFALVNRKPVVPGHVLVCPLRPVERFHDLRPDEVADLFQTTQRVGTVVE KHFHGTSLTFSMQDGPEAGQTVKHVHVHVLPRKAGDFHRNDSIYEELQKHDKEDFPASWRSEEEMAAEAA ALRVYFQ TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-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:	NP_002003
RefSeq Size:	1103
RefSeq ORF:	441
Synonyms:	AP3Aase; FRA3B
Locus ID:	2272
UniProt ID:	P49789, A0A024R366

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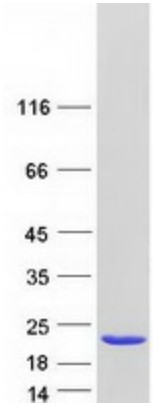
Cytogenetics: 3p14.2

Summary: The protein encoded by this gene is a P1-P3-bis(5'-adenosyl) triphosphate hydrolase involved in purine metabolism. This gene encompasses the common fragile site FRA3B on chromosome 3, where carcinogen-induced damage can lead to translocations and aberrant transcripts. In fact, aberrant transcripts from this gene have been found in about half of all esophageal, stomach, and colon carcinomas. The encoded protein is also a tumor suppressor, as loss of its activity results in replication stress and DNA damage. [provided by RefSeq, Aug 2017]

Protein Pathways: Non-small cell lung cancer, Purine metabolism, Small cell lung cancer

Product images:



Coomassie blue staining of purified FHIT protein (Cat# [TP307120]). The protein was produced from HEK293T cells transfected with FHIT cDNA clone (Cat# [RC207120]) using MegaTran 2.0 (Cat# [TT210002]).