

Product datasheet for PH304021

Inosine triphosphate pyrophosphatase (ITPA) (NM_033453) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ITPA MS Standard C13 and N15-labeled recombinant protein (NP_258412)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204021
Predicted MW:	21.4 kDa
Protein Sequence:	>RC204021 protein sequence Red=Cloning site Green=Tags(s) MAASLVGKKIVFVTGNAKKLEEVVQILGDKFPCTLVAAQKIDLPEYQGEPEISIQKQCEAVRQVQGPVLV EDTCLCFNALGGLPGPYIKWFLEKLPKPEGLHQLLAGFEDKSAYALCTFALSTGDPSPVRLFRGRTSGRI VAPRGQDFGWDPFCQPDGGEQTYAEMPKAEKNAVSHRFRALLELQEYFGSLAA 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- 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:	NP_258412
RefSeq Size:	1202
RefSeq ORF:	582
Synonyms:	C20orf37; DEE35; dj79416.3; HLC14-06-P; ITPase; My049; NTPase
Locus ID:	3704
UniProt ID:	Q9BY32 , A0A0S2Z3W7



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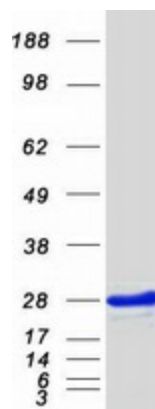
Cytogenetics: 20p13

Summary: This gene encodes an inosine triphosphate pyrophosphohydrolase. The encoded protein hydrolyzes inosine triphosphate and deoxyinosine triphosphate to the monophosphate nucleotide and diphosphate. This protein, which is a member of the HAM1 NTPase protein family, is found in the cytoplasm and acts as a homodimer. Defects in the encoded protein can result in inosine triphosphate pyrophosphorylase deficiency which causes an accumulation of ITP in red blood cells. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jun 2012]

Protein Families: Druggable Genome

Protein Pathways: Drug metabolism - other enzymes, Metabolic pathways, Purine metabolism, Pyrimidine metabolism

Product images:



Coomassie blue staining of purified ITPA protein (Cat# [TP304021]). The protein was produced from HEK293T cells transfected with ITPA cDNA clone (Cat# [RC204021]) using MegaTran 2.0 (Cat# [TT210002]).