

## Product datasheet for **TP303452L**

### ISYNA1 (NM\_016368) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human inositol-3-phosphate synthase 1 (ISYNA1), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC203452 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MEAAQFFVESPDVVYGPEAIEAQYEYRTRVSREGGVLKVHPTSTRFTFRTARQVPRLGVMLVGGWGN  
GSTLTAAVLNRLRLSWPTRSGRKEANYGSLTQAGTVSLGLDAEGQEVFVFPFSAVLPMPVAPNDLVFDGW  
DISSLNLAEMRRAKVLWDWGLQEQWLWPHMEALRPRPSVYIPEFIAANQSARADNLIPGSRAQQLEQIRRD  
IRDFRSSAGLDKIVLWTANTERFCEVIPGLNDAENLLRTIELGLEVSPSTLFAVASILEGCAFLNGSP  
QNTLVPGALELAWQHRVFGDDFKSGQTKVKSVLVDFLIGSGLKTMMSIVSYNHLGNNNDGENLSAPLQFR  
SKEVSKSNVWDDMVQSNPVLYTPGEEP DHCVVIKYVPYVGD SKRALDEYTS ELM LGGTNTLV LHNTCED S  
LLAAPIMLDLALLTELCQRVSFCTDMDPEPQTFHPVLSLLSFLFKAPLPPGSPVNALFRQRSCIENIL  
RACVGLPPQNHMLLEHKMERPGPSLKRVGPAATYPMLNKKGPVPAATNGCTGDANGHLQEEPPMPTT

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	60.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.



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RefSeq: [NP\\_057452](#)

Locus ID: 51477

UniProt ID: [Q9NPH2](#), [A0A140VK73](#)

RefSeq Size: 2427

Cytogenetics: 19p13.11

RefSeq ORF: 1674

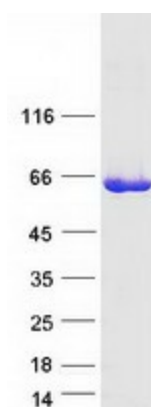
Synonyms: INO1; INOS; IPS; IPS-1; IPS 1

**Summary:** This gene encodes an inositol-3-phosphate synthase enzyme. The encoded protein plays a critical role in the myo-inositol biosynthesis pathway by catalyzing the rate-limiting conversion of glucose 6-phosphate to myoinositol 1-phosphate. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene, and a pseudogene of this gene is located on the short arm of chromosome 4. [provided by RefSeq, Nov 2011]

**Protein Families:** Druggable Genome

**Protein Pathways:** Inositol phosphate metabolism, Metabolic pathways

### Product images:



Coomassie blue staining of purified ISYNA1 protein (Cat# [TP303452]). The protein was produced from HEK293T cells transfected with ISYNA1 cDNA clone (Cat# [RC203452]) using MegaTran 2.0 (Cat# [TT210002]).