

Recombinant Full Length Human ISYNA1 Protein, GST-tagged

Cat. No. ISYNA1-5772HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human ISYNA1 full-length ORF (BAB13837.1, 1 a.a. - 558 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	558 amino acids
Description	Myoinositol, the most common naturally occurring form of inositol, is a component of plasma membrane phospholipids and functions as a cell signaling molecule. ISYNA1 (EC 5.5.1.4), or IPS, is a rate-limiting enzyme that catalyzes the de novo synthesis of myoinositol 1-phosphate from glucose 6-phosphate (Seelan et al., 2004 [PubMed 15464731]).[supplied by OMIM
Molecular Mass	87.5 kDa
AA Sequence	MEAAAQFFVESPDVVYGPEAIEAQYEYRTRTRVSREGGVLKVHPTSTRFTFRTARQV PRLGVMLVWGNGNSTLTAAVLANRLRLSWPTRSGRKEANYYGSLTQAGTVSLG LDAEGQEVFVPFSAVLPMPVAPNDLVFDGWDISSLNLAEMRRRAKVLWDWGLQEQLW PHMEALRPRPSVYIPEFIAANQSARADNLIPGSRAQQLEQIRRDIFRSDAGLDKVI VLWTANTERFCEVIPGLNDAENLLRTIELGLEVSPSTLFAVASILEGCAFLNGSPQN TLVPGALELAWQHRVFGGDDFKSGQTKVKSVLVDFLIGSGLKTMMSIVSYNHLGNN DGENLSAPLQFRSKEVSKSNVDDMVQSNPVLVYTPGEEPDCVVIKYPYVGDSKR ALDEYTSELMLGGTNTLVLHNTCEDSLLAAPIMLDLALLTELCQRVSFCTDMDPEPQ

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TFHPVLSLLSFLFKAPLVPPGSPVVNALFRQRSCIENILRACVGLPPQNHMLLEHKME
RPGPSLKRVGVPVAATYPMLNKKGPVPAATNGCTGDANGHLQEPPMPTT

Applications	Enzyme-linked Immunoabsorbent Assay Western Blot (Recombinant protein) Antibody Production Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	ISYNA1 inositol-3-phosphate synthase 1 [Homo sapiens (human)]
Official Symbol	ISYNA1
Synonyms	ISYNA1; inositol-3-phosphate synthase 1; IPS; INO1; INOS; IPS 1; IPS-1; inositol-3-phosphate synthase 1; MI-1-P synthase; MIP synthase; myo-inositol 1-phosphate synthase A1; testis secretory sperm-binding protein Li 200a; EC 5.5.1.4
Gene ID	51477
mRNA Refseq	NM_001170938
Protein Refseq	NP_001164409
MIM	611670

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UniProt ID

Q9NPH2

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