

Full-Length

ISYNA1 (Human) Recombinant Protein (P01)

Catalog # H00051477-P01

Size 50 ug

Specification

Product Description	Human ISYNA1 full-length ORF (BAB13837.1, 1 a.a. - 558 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MEAAQFFVESPDVVYGPEAIEAQYEYRTTRVSREGGVLKVHPTSTRFTFRTARQVPRLGVMLVG WGGNNGSTLTAAVLANRLRLSWPTRSGRKEANYGSLTQAGTVSLGLDAEGQEVFVPFSAVLP MVAPNDLVFDGWDISSNLAEAMRRAKVLDWGLQEQLWPHMEALRPRPSVYIPEFIAANQSARA DNLIPGSRAQQLEQIRRDIDFRSSAGLDKVM/LWTANTERFCEVIPGLNDAENLLRTIELGLEVSP STLFAVASILEGCAFLNGSPQNTLVPGALELAWQHRVFVGGDDFKSGQTKVKSVLVDFLIGSGLK TMSIVSYNHLGNNDGENLSAPLQFRSKEVSKSNVDDMVQSNPVLVTPGEEPDPHCVVIKYPYV GDSKRALDEYTSELMLGGTNTLV/LHNTCEDSLAAPIMLDLALLTELCQRVSFCTDMDPEPQTFH PVLSELLSFLFKAPLVPPGSPVVNALFRQRSCIENILRACVGLPPQNHMLLEHKMERPGPSLKRVG PVAATYPMLNKKGPVPAATNGCTGDANGHLQEEPPMPTT
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	87.5
Interspecies Antigen Sequence	Mouse (88); Rat (89)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay

- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ISYNA1

Entrez GeneID [51477](#)

GeneBank Accession# [AK021526.1](#)

Protein Accession# [BAB13837.1](#)

Gene Name ISYNA1

Gene Alias INOS, IPS, Ino1

Gene Description inositol-3-phosphate synthase 1

Omim ID [611670](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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]

Other Designations myo-inositol 1-phosphate synthase A1

Pathway

- [Inositol phosphate metabolism](#)
- [Metabolic pathways](#)
- [Streptomycin biosynthesis](#)