# Recombinant Human ISYNA1 Protein, GST-tagged

**Cat. No.** ISYNA1-5006H **Lot. No.** (See product label)

## SPECIFICATION

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| **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** | Wheat Germ |
| **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** | MEAAAQFFVESPDVVYGPEAIEAQYEYRTTRVSREGGVLKVHPTSTRFTFRTARQV PRLGVMLVGWGGNNGSTLTAAVLANRLRLSWPTRSGRKEANYYGSLTQAGTVSLG LDAEGQEVFVPFSAVLPMVAPNDLVFDGWDISSLNLAEAMRRAKVLDWGLQEQLW PHMEALRPRPSVYIPEFIAANQSARADNLIPGSRAQQLEQIRRDIRDFRSSAGLDKVI VLWTANTERFCEVIPGLNDTAENLLRTIELGLEVSPSTLFAVASILEGCAFLNGSPQN TLVPGALELAWQHRVFVGGDDFKSGQTKVKSVLVDFLIGSGLKTMSIVSYNHLGNN DGENLSAPLQFRSKEVSKSNVVDDMVQSNPVLYTPGEEPDHCVVIKYVPYVGDSKR ALDEYTSELMLGGTNTLVLHNTCEDSLLAAPIMLDLALLTELCQRVSFCTDMDPEPQ TFHPVLSLLSFLFKAPLVPPGSPVVNALFRQRSCIENILRACVGLPPQNHMLLEHKME |

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| | RPGPSLKRVGPVAATYPMLNKKGPVPAATNGCTGDANGHLQEEPPMPTT |
| **Applications** | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>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-HCI, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |

## GENE INFORMATION

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| **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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