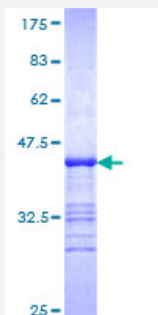


ISYNA1 (Human) Recombinant Protein (Q01)

Catalog # H00051477-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human ISYNA1 partial ORF (NP_057452, 331 a.a. - 430 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	SYNHLGNNDGENLSAPLQFRSKEVSKSNVVDDMVQSNPVLYTPGEEDHCVVIKYVPYVGDSKR ALDEYTSELMLGGTNTLVLHNTCEDSLAAPIMLDL
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
Interspecies Antigen Sequence	Mouse (93); Rat (95)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
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# [NM_016368](#)

Protein Accession# [NP_057452](#)

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](#)