

SHIP2 recombinant protein

SHIP2, Active

CATALOG # AAA73793	HOST Sf9 insect cells	APPLICATIONS Western Blot
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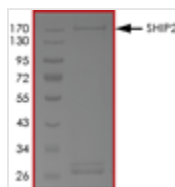
PRODUCT SYNONYMS

SHIP2; Active; INPPL1; SHIP2 recombinant protein

PRODUCT SPECIFICATIONS

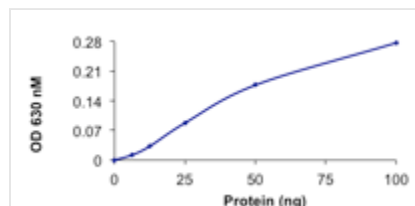
Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 20mM MOPS, pH7.5, 300mM NaCl, 10mM glutathione, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Applicable Applications for SHIP2 recombinant protein	WB (Western Blot), Phosphatase Assay
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical data sheet.



Activity

Specific Activity: Sample Enzyme Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for SHIP2 recombinant protein	Recombinant full length human SHIP2 was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_001567. The SH2-containing inositol-5?-phosphatase 2 (SHIP2) belongs to the family of the mammalian inositol polyphosphate 5-phosphatases that catalyze the dephosphorylation of phosphoinositides and inositol phosphates with a phosphate at 5-position of the inositol ring. In addition to the N-terminal SH2 domains and N- and C-terminal proline-rich regions with consensus sites for SH3 domain interactions, SHIP2 also contains an SAM domain in the C-terminus interacting with the EphA2 receptor and with a PI 3-kinase effector protein regulating both Arf and Rho GTPases, ARAP3.
Product Categories/Family for SHIP2 recombinant protein	Phosphatases; AKT/PKB Pathway; Apoptosis/Autophagy; Inflammation; Lipid Kinases

References

1. Pesesse X, et al: Identification of a second SH2-domain-containing protein closely related to the phosphatidylinositol polyphosphate 5-phosphatase SHIP. Biochem Biophys Res Commun. 239(3): 697-700, 1997.
2. Zhuang G, et al: Regulation of EphA2 receptor endocytosis by SHIP2 lipid phosphatase via phosphatidylinositol 3-Kinase-dependent Rac1 activation. J Biol Chem. 282(4): 2683-94, 2007.
3. Raaijmakers JH, et al: The PI3K effector Arap3 interacts with the PI (3,4,5) P3 phosphatase SHIP2 in a SAM domain-dependent manner. Cell Signal. 19(6): 1249-57, 2007.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM_001567](#)

Molecular Weight

175kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/ship2-recombinant-protein-sf9-insect-cells-wb-western-blot-phosphatase-assay/73793>