

Active Recombinant Mouse Huntingtin Interacting Protein 1, His-tagged

Cat. No. Hip1-5638M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Hip1 protein was expressed in Murine myeloma cell line, with the Mouse Hip Lys24-Arg678 & Asp52-Arg678 (N-terminus) and a C-terminal 10-His tag.
Species	Mouse
Source	Mammalian Cells
Protein Length	24-678 a.a.
Description	Hedgehog signaling proteins act as mitogens, morphogens, or inducing factors in many different cell types during embryonic development. They aid in growth, patterning, and morphogenesis in both vertebrates and insects. Hip1 (Hedgehog-interacting protein) is a type I transmembrane protein identified for its ability to bind biologically active Sonic Hedgehog. It is comprised of 700 aa, and includes a hydrophobic signal sequence, two EGF-like domains near the C-terminus, and a 22 amino acid membrane-spanning region at the C-terminal end. Hip1 has only been identified in vertebrates and binds all three mammalian Hedgehogs: sonic (Shh), desert (Dhh), and Indian (Ihh).
Form	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
N-terminal Sequence	Lys24 & Asp52

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MolecularWeight	76 kDa & 73 kDa
Activity	Measuredby its ability to inhibit Sonic Hedgehog (Shh) induction of alkalinephosphatase production in C3H10T1/2 mouse fibroblasts. The ED50 for this effect is typically 1.5-7.5 µg/mL in the presence of 5 µg/mL rmShh.
Endotoxin Level	<1.0EU per 1µg of the protein by the LAL method.
SDS-PAGE	80-90kDa and 58-64 kDa, reducing conditions.
Purity	>90%,by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100µg/mL in sterile PBS
Storage	Use a manual defrostfreezer and avoid repeated freeze-thaw cycles. 12 months from dateof receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterileconditions after reconstitution. 3 months, -20 to -70°C under sterileconditions after reconstitution.

GENE INFORMATION

Gene Name	Hip1 huntingtin interactingprotein 1 [Mus musculus]
Official Symbol	Hip1
Synonyms	Hip1; huntingtininteracting protein 1; mKIAA4113;2610109B09Rik; A930014B11Rik; E130315I21Rik; KIAA4113; MGC27616; HIP-I; huntingtin-interactingprotein I
Gene ID	215114
mRNA Refseq	NM_146001

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Protein Refseq	NP_666113
UniProt ID	Q8C303
Chromosome Location	5
Pathway	EGFR1 SignalingPathway; Huntington"s disease
Function	actin binding; binding;clathrin binding; phosphatidylinositol binding; phospholipid binding; proteinbinding

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