Recombinant Mouse Lamtor5 Protein, Myc/DDK-tagged

Cat. No. Lamtor5-3363M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length hepatitis B virus x interacting protein (cDNA clone MGC:41446 IMAGE:1513442), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	As part of the Ragulator complex it is involved in amino acid sensing and activation of mTORC1, a signaling complex promoting cell growth in response to growth factors, energy levels, and amino acids. Activated by amino acids through a mechanism involving the lysosomal V-ATPase, the Ragulator functions as a guanine nucleotide exchange factor activating the small GTPases Rag. Activated Ragulator and Rag GTPases function as a scaffold recruiting mTORC1 to lysosomes where it is in turn activated. When complexed to BIRC5, interferes with apoptosome assembly, preventing recruitment of pro-caspase-9 to oligomerized APAF1, thereby selectively suppressing apoptosis initiated via the mitochondrial/cytochrome c pathway.
Molecular Mass	9.6 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

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Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 μg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Lamtor5 late endosomal/lysosomal adaptor, MAPK and MTOR activator 5 [Mus musculus (house mouse)]
Official Symbol	Lamtor5
Synonyms	Lamtor5; late endosomal/lysosomal adaptor, MAPK and MTOR activator 5; Hbx; XIP; Hbxip; 1110003H18Rik; ragulator complex protein LAMTOR5; HBV X-interacting protein homolog; HBX-interacting protein homolog; hepatitis B virus X-interacting protein homolog; hepatitis B virus x interacting protein; late endosomal/lysosomal adaptor and MAPK and MTOR activator 5
Gene ID	68576
mRNA Refseq	NM_026774
Protein Refseq	NP_081050
UniProt ID	Q9D1L9

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