

Recombinant Mouse Castor1 Protein, Myc/DDK-tagged

Cat. No. Castor1-1970M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length cytosolic arginine sensor for mTORC1 subunit 1 (Castor1), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Functions as an intracellular arginine sensor within the amino acid-sensing branch of the TORC1 signaling pathway. As a homodimer or a heterodimer with CASTOR2, binds and inhibits the GATOR subcomplex GATOR2 and thereby mTORC1. Binding of arginine to CASTOR1 allosterically disrupts the interaction of CASTOR1-containing dimers with GATOR2 which can in turn activate mTORC1 and the TORC1 signaling pathway.
Molecular Mass	36.6 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.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method

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Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Castor1 cytosolic arginine sensor for mTORC1 subunit 1 [Mus musculus (house mouse)]
Official Symbol	Castor1
Synonyms	Castor1; cytosolic arginine sensor for mTORC1 subunit 1; Gat; Gatsl3; 2410008K03Rik; cytosolic arginine sensor for mTORC1 subunit 1; GATS protein-like 3; GATS-like protein 3
Gene ID	71962
mRNA Refseq	NM_028022
Protein Refseq	NP_082298
UniProt ID	Q9CWQ8

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