

Recombinant Mouse Bmt2 Protein, MYC/DDK-tagged

Cat. No. Bmt2-173M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of full-length mouse base methyltransferase of 25S rRNA 2 (Bmt2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	S-adenosyl-L-methionine-binding protein that acts as an inhibitor of mTORC1 signaling via interaction with the GATOR1 and KICSTOR complexes. Acts as a sensor of S-adenosyl-L-methionine to signal methionine sufficiency to mTORC1: in presence of methionine, binds S-adenosyl-L-methionine, leading to disrupt interaction with the GATOR1 and KICSTOR complexes and promote mTORC1 signaling. Upon methionine starvation, S-adenosyl-L-methionine levels are reduced, thereby promoting the association with GATOR1 and KICSTOR, leading to inhibit mTORC1 signaling. Probably also acts as a S-adenosyl-L-methionine-dependent methyltransferase.
Molecular Mass	46 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.

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Concentration >50 ug/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 Bmt2 base methyltransferase of 25S rRNA 2 [*Mus musculus* (house mouse)]

Official Symbol Bmt2

Synonyms Bmt2; base methyltransferase of 25S rRNA 2; AI666701; B630005N14Rik; S-adenosylmethionine sensor upstream of mTORC1; UPF0532 protein C7orf60 homolog; probable methyltransferase BMT2 homolog; probable methyltransferase BTM2 homolog; EC 2.1.1.-

Gene ID 101148

mRNA Refseq NM_175312

Protein Refseq NP_780521

UniProt ID Q8BXK4

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