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Product datasheet for TP513217

Bmt2 (NM_175312) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse base methyltransferase of 25S rRNA 2 (Bmt2), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR213217 protein sequence Red=Cloning site Green=Tags(s) MEPGPGGRGAARGQRPPNAAQPREQERKLEQEKLSGVVKSVHRRLRKKYREVGDFDKIWREHCEDAETLC EYAVAMKNLADNHWAKTCEGEGRIEWCCSVCREYFQNGGKRKALEKDEKRAVLATKTTPALNVHESSKLE GPLTNLSFTSPDFITELLQASGKIRLLDVGSCFNPFLKFEEFLTVGIDIVPAVESVYKCDFLNLQLQQPL QLAQDAIDAFLKQLRNPIDALPGELFHVVVFSLLLSYFPSPYQRWICCKKAHELLVLNGLLLIITPDSSH QNRHAMMMKSWKIAIESLGFKRFKYSKFSHMHLMAFRKTSLKTTSDLVSRNYPGMLYIPQDFNSVEEEEY SNTSCYVRSDLEDEQLAYGFTELPEAPYDSDSGESQASSIPFYELEDPILLLS TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-MYC/DDK
Predicted MW:	46 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_780521
Locus ID:	101148
UniProt ID:	Q8BXK4

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RefSeq Size:	4147
Cytogenetics:	6 A1
RefSeq ORF:	1212
Synonyms:	AI666701; B630005N14Rik
Summary:	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.[UniProtKB/Swiss-Prot Function]