

Recombinant Mouse Bcdin3d Protein, Myc/DDK-tagged

Cat. No. Bcdin3d-1846M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length BCDIN3 domain containing (Bcdin3d), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	O-methyltransferase that specifically monomethylates 5'-monophosphate of cytoplasmic histidyl tRNA (tRNA(His)), acting as a capping enzyme by protecting tRNA(His) from cleavage by DICER1. Also able, with less efficiently, to methylate the 5' monophosphate of a subset of pre-miRNAs, acting as a negative regulator of miRNA processing. The 5' monophosphate of pre-miRNAs is recognized by DICER1 and is required for pre-miRNAs processing: methylation at this position reduces the processing of pre-miRNAs by DICER1. Was also reported to mediate dimethylation of pre-miR-145; however dimethylation cannot be reproduced by another group which observes a monomethylation of pre-miR-145.
Molecular Mass	32 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 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 Bcdin3d BCDIN3 domain containing [*Mus musculus* (house mouse)]

Official Symbol Bcdin3d

Synonyms Bcdin3d; BCDIN3 domain containing; AV138748; 4930556P03Rik; RNA 5'-monophosphate methyltransferase; BCDIN3 domain-containing protein; pre-miRNA 5'-monophosphate methyltransferase; probable methyltransferase BCDIN3D; EC 2.1.1.-

Gene ID 75284

mRNA Refseq NM_029236

Protein Refseq NP_083512

UniProt ID Q91YP1

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