Recombinant Human BCDIN3D Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. BCDIN3D-3359H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	BCDIN3D MS Standard C13 and N15-labeled recombinant protein (NP_859059) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes an RNA methyltransferase which belongs to the rossmann fold methyltransferase family, and serves as a 5'-methylphosphate capping enzyme that is specific for cytoplasmic histidyl tRNA. The encoded protein contains an S-adenosylmethionine binding domain and uses the methyl group donor, S-adenosylmethionine. This gene is overexpressed in breast cancer cells, and is related to the tumorigenic phenotype and poor prognosis of breast cancer. The encoded protein is thought to promote the cellular invasion of breast cancer cells, by downregulating the expression of tumor suppressor miRNAs through the dimethylation of the 5-monophosphate of the corresponding precursor miRNAs.
Molecular Mass	33.2 kDa
AA Sequence	MAVPTELDGGSVKETAAEEESRVLAPGAAPFGNFPHYSRFHPPEQRLRLLPPELLR QLFPESPENGPILGLDVGCNSGDLSVALYKHFLSLPDGETCSDASREFRLLCCDIDP VLVKRAEKECPFPDALTFITLDFMNQRTRKVLLSSFLSQFGRSVFDIGFCMSITMWIH LNHGDHGLWEFLAHLSSLCHYLLVEPQPWKCYRAAARRLRKLGLHDFDHFHSLAIR

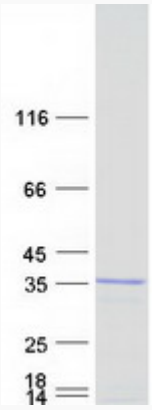
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	GDMPNQIVQILTQDHGMELICCFGNTSWDRSLLLFRAKQTIETHPIPESLIEKGKEKN RLSFQKQTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	BCDIN3D BCDIN3 domain containing [Homo sapiens (human)]
Official Symbol	BCDIN3D
Synonyms	BCDIN3D; BCDIN3 domain containing; RNA 5'-monophosphate methyltransferase; BCDIN3 domain containing RNA methyltransfease; BCDIN3 domain-containing protein; pre-miRNA 5'-monophosphate methyltransferase; probable methyltransferase BCDIN3D; EC 2.1.1.-
Gene ID	144233
mRNA Refseq	NM_181708
Protein Refseq	NP_859059

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UniProt ID	Q7Z5W3
SDS-PAGE	

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