

Recombinant Full Length Human BCDIN3D Protein, GST-tagged

Cat. No. BCDIN3D-1611HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human BCDIN3D full-length ORF (NP_859059.1, 1 a.a. - 292 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	292 amino acids
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.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	59.6 kDa
AA Sequence	MAVPTELDGG SVKETAAEEE SRVLAPGAAP FGNFPHYSRF HPPEQRLRL

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PELLRQLFP ESPENGPILG LDVGCNSGDL SVALYKHFLS LPDGETCSDA
 SREFRLLCCD IDPVLVKRAE KECPPFDALT FITLDFMNQR TRKVLLSSFL
 SQFGRSVFDI GFCMSITMWI HLNHGDHGLW EFLAHLSSLC HYLLVEPQPW
 KCYRAAARRL RKLGLHDFDH FHSLAIRGDM PNQIVQILTQ DHGMELICCF
 GNTSWDRSLL LFRAKQTJET HPIPESLIEK GKEKNRLSFQ KQ

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name [BCDIN3D BCDIN3 domain containing \[Homo sapiens \]](#)

Official Symbol [BCDIN3D](#)

Synonyms BCDIN3 Domain Containing RNA Methyltransferase; RNA 5'-Monophosphate Methyltransferase; BCDIN3 Domain-Containing Protein; BCDIN3 Domain Containing RNA Methyltransferase; Pre-MiRNA 5'-Monophosphate Methyltransferase; Probable Methyltransferase BCDIN3D; BCDIN3 Domain Containing; EC 2.1.1

Gene ID [144233](#)

mRNA Refseq [NM_181708.2](#)

Protein Refseq [NP_859059.1](#)

MIM [619601](#)

UniProt ID [Q7Z5W3](#)

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