

Recombinant Mouse Ddit4 Protein, Myc/DDK-tagged

Cat. No. Ddit4-2493M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length DNA-damage-inducible transcript 4 (Ddit4), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Regulates cell growth, proliferation and survival via inhibition of the activity of the mammalian target of rapamycin complex 1 (mTORC1). Inhibition of mTORC1 is mediated by a pathway that involves DDIT4/REDD1, AKT1, the TSC1-TSC2 complex and the GTPase RHEB. Plays an important role in responses to cellular energy levels and cellular stress, including responses to hypoxia and DNA damage. Regulates p53/TP53-mediated apoptosis in response to DNA damage via its effect on mTORC1 activity. Its role in the response to hypoxia depends on the cell type; it mediates mTORC1 inhibition in fibroblasts and thymocytes, but not in hepatocytes. Inhibits neuronal differentiation and neurite outgrowth mediated by NGF via its effect on mTORC1 activity. Required for normal neuron migration during embryonic brain development. Plays a role in neuronal cell death. Required for mTORC1-mediated defense against viral protein synthesis and virus replication.
Molecular Mass	25.3 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

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handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

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 Ddit4 DNA-damage-inducible transcript 4 [Mus musculus (house mouse)]

Official Symbol Ddit4

Synonyms DDIT4; DNA-damage-inducible transcript 4; DNA damage-inducible transcript 4 protein; REDD-1; HIF-1 responsive RTP801; HIF-1 responsive protein RTP801; dexamethasone-induced gene 2 protein; DNA-damage-inducible transcript 4 protein; protein regulated in development and DNA damage response 1; dig2; REDD1; Rtp801; AA415483; 5830413E08Rik

Gene ID 74747

mRNA Refseq NM_029083

Protein Refseq NP_083359

UniProt ID Q9D3F7

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