

Recombinant Full Length Human DDIT4 protein, His-tagged

Cat. No. DDIT4-3433H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DDIT4(1-232aa) fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-232 a.a.
Description	DDIT4, also known as Dig2 or REDD1, is thought to have function in the regulation of reactive oxygen species. In response to stress due to DNA damage and glucocorticoid treatment, DDIT4 is upregulated at the transcriptional level. DDIT4 negatively regulates the mammalian target of Rapamycin, a serine/threonine kinase often referred to as mTOR. It is crucial in the coupling of extra- and intracellular cues to mTOR regulation.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.2M NaCl, 5mM DTT, 1mM EDTA, 30% glycerol
Molecular Mass	27.5 kDa (252aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)
AA Sequence	MGSSHHHHHH SSGLVPRGSHAYLDGVSLPD FELLSDPEDE HLCANLMQLL QESLAQARLG SRRPARLLMP SQLVSQVGKE LLRLAYSEPC GLRGALLDVC VEQGKSCSV GQLALDPSLV PTFQLTLVLR LDSRLWPQIQ GLFSSANSPF

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LPGFSQSLTL STGFRVIKKK LYSSEQLLIE EC MP SLWDRFSS SSTSSSPSSL
PRTPTPDRPP RSAWGSATRE EGDRSTSLE SSDCESLDSS NSGFGPEEDT

Purity >90% by SDS - PAGE

Storage Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.

Concentration 0.25 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name DDIT4 DNA-damage-inducible transcript 4 [Homo sapiens]

Official Symbol DDIT4

Synonyms DDIT4; DNA-damage-inducible transcript 4; DNA damage-inducible transcript 4 protein; Dig2; FLJ20500; HIF 1 responsive RTP801; REDD 1; REDD1; RTP801; HIF-1 responsive protein RTP801; HIF-1 responsive RTP801 (RTP801); protein regulated in development and DNA damage response 1; REDD-1; RP11-442H21.1;

Gene ID 54541

mRNA Refseq NM_019058

Protein Refseq NP_061931

MIM 607729

UniProt ID Q9NX09

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Chromosome Location	10q22.1
Pathway	Direct p53 effectors, organism-specific biosystem; mTOR signaling pathway, organism-specific biosystem; mTOR signaling pathway, organism-specific biosystem; mTOR signaling pathway, conserved biosystem;
Function	14-3-3 protein binding;

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