

## Recombinant Human DDIT3, His-tagged

Cat. No. DDIT3-11195H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human DDIT3 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.

**Species** Human

**Source** E.coli

**ProteinLength** 1-169a.a.

**Description** This gene encodes a member of the CCAAT/enhancer-binding protein (C/EBP) family of transcription factors. The protein functions as a dominant-negative inhibitor by forming heterodimers with other C/EBP members, such as C/EBP and LAP (liver activator protein), and preventing their DNA binding activity. The protein is implicated in adipogenesis and erythropoiesis, is activated by endoplasmic reticulum stress, and promotes apoptosis. Fusion of this gene and FUS on chromosome 16 or EWSR1 on chromosome 22 induced by translocation generates chimeric proteins in myxoid liposarcomas or Ewing sarcoma. Multiple alternatively spliced transcript variants encoding two isoforms with different length have been identified.

**Source** E.coli

**Species** Human

**Tag** His

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<b>Storage</b>	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
<b>Storage Buffer</b>	1M PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH8. ) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	DDIT3 DNA-damage-inducible transcript 3 [ Homo sapiens ]
<b>Official Symbol</b>	DDIT3
<b>Synonyms</b>	DDIT3; DNA-damage-inducible transcript 3; DNA damage-inducible transcript 3 protein; C/EBP zeta; CHOP; CHOP10; GADD153; DDIT-3; c/EBP-homologous protein 10; CCAAT/enhancer-binding protein homologous protein; growth arrest and DNA damage-inducible protein GADD153; CEBPZ; CHOP-10; MGC4154;
<b>Gene ID</b>	1649
<b>mRNA Refseq</b>	NM_001195053
<b>Protein Refseq</b>	NP_001181982
<b>MIM</b>	126337
<b>UniProt ID</b>	P35638
<b>Chromosome Location</b>	12q13.1-q13.2
<b>Pathway</b>	ATF-2 transcription factor network, organism-specific biosystem; Activation of

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Chaperone Genes by ATF6-alpha, organism-specific biosystem; Activation of Chaperones by ATF6-alpha, organism-specific biosystem; Activation of Genes by ATF4, organism-specific biosystem; Adipogenesis, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; Disease, organism-specific biosystem;

**Function**

DNA binding; protein dimerization activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; transcription corepressor activity; transcription factor binding;

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