

Recombinant Human DDIT3, His-tagged

Cat. No. DDIT3-26512TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full length Human GADD153 fused with an N terminal His-tag; 189aa, 21 kDa.
Species	Human
Source	E.coli
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.
Conjugation	HIS
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 20% Glycerol, 20mM Tris, pH 8.0

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MAAESLPFSF GTLSSWELEA WYEDLQEVLS SDENGGTYVS PPGNEEEESK IFTTLDPASL AWLTEEEPEP AEVTSTSQSP HSPDSSQSSL AQEEEEEDQG RTRKRKQSGH SPARAGKQRM KEKEQENERK VAQLAEENER LKQEIERLTR EVEATRRALI DRMVNLHQA
Sequence Similarities	Belongs to the bZIP family.Contains 1 bZIP domain.
Full Length	Full L.
GENE INFORMATION	
Gene Name	DDIT3 DNA-damage-inducible transcript 3 [Homo sapiens]
Official Symbol	DDIT3
Synonyms	DDIT3; DNA-damage-inducible transcript 3; DNA damage-inducible transcript 3 protein; C/EBP zeta; CHOP; CHOP10; GADD153;
Gene ID	1649
mRNA Refseq	NM_004083
Protein Refseq	NP_004074
MIM	126337
Uniprot ID	P35638
Chromosome	12q13.1-q13.2

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Location	
Pathway	ATF-2 transcription factor network, organism-specific biosystem; Activation of Chaperones by ATF6-alpha, organism-specific biosystem; Adipogenesis, organism-specific biosystem; Diabetes pathways, organism-specific biosystem; MAPK signaling pathway, organism-specific biosystem;
Function	DNA binding; protein dimerization activity; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity; transcription corepressor activity;

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