Recombinant Human DNA-damage-inducible Transcript 3, GST-tagged

Cat. No. DDIT3-1361H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DDIT3 full length protein fused to GST tag expressed in*E.coli*, shows a 52 kDa on SDS-PAGE. The DDIT3 is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Description	GADD 153 has been described as a growth arrest and DNA damage-inducible gene that encodes a C/EBP-related nuclear protein. GADD153 expression is induced by a variety of cellular stresses, including glucose deprivation, exposure to genotoxic agents, UV irradiation, the acute phase reaction, and other growth-arresting situations. GADD153 functions to block cells in G1 to S phase in cell cycle progression and acts by dimerizing with other C/EBP proteins to direct GADD153 dimers away from "classical" C/EBP binding sites, recognizing instead unique "nonclassical" sites. In growing cells gadd153 is expressed at very low levels. Cell cycle arrest might be induced by forced expression of gadd153 in numerous types of cells; it might also induce cell death by apoptosis. Myc protein strongly stimulates cellular proliferation by inducing cells to exit G0/G1 and enter the cell cycle. Myc protein represses the expression of gadd153.
Physical Appearance	Sterile Filtered clear solution.

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Formulation	DDIT3 protein at a concentration 100μg/ml in 50mM Tris-Acetate, pH7.5, 1mM EDTA and 20% Glycerol.
Applications	• ELISA • Western Blotting.
Stability	Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months. Please prevent freeze-thaw cycles.
Full Length	Full L.

GENE INFORMATION

Gene Name	DDIT3 DNA-damage-inducible transcript 3 [Homo sapiens]
Synonyms	DDIT3;DNA-damage-inducible transcript 3; CHOP; CEBPZ; CHOP10; GADD153; MGC4154; C/EBP zeta; C/EBP homologous protein; growth arrest- and DNA damage-inducible; CCAAT/enhancer-binding protein homologous protein;DNA damage-inducible transcript 3; DDIT-3; wth arrest and DNA-damage-inducible protein 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	MAPK signaling pathway; Diabetes pathways
Function	protein dimerization activity; sequence-specific DNA binding; transcription corepressor activity; transcription factor activity

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