Recombinant Human DNA-Damage-Inducible Transcript 3, His-tagged

Cat. No. DDIT3-4948H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant GADD153 fused with His-tag, was expressed in E. coli and purified by conventional chromatography techniques.
Species	Human
Source	Human
Description	GADD153, also known as DNA-damage-inducible transcript 3 (DDIT3), is a basic domain-leucine zipper(bZIP) transcription factor of C/EBP family. This protein has been shown to be up-regulated by several stresses, such as amino acid or glucose starvation, endoplasmic reticulum (ER) stress, osmotic stress and hypoxia. GADD153 protein may play a role in ER stress-mediated apoptosis and in disease including diabetes, brain ischemia and neurodegenerative disease.
Concentration	1 mg/ml
Form	Supplied as a liquid in 20mM Tris-HCl buffer, pH 8.0, containing 50mM NaCl and 10% glycerol.
Purity	> 90 by SDS - PAGE
Sequence	1-169 amino acids: MGSSHHHHHH SSGLVPRGSH MAAESLPFSF GTLSSWELEA WYEDLQEVLS SDENGGTYVS PPGNEEEESK IFTTLDPASL AWLTEEEPEP AEVTSTSQSP HSPDSSQSSL AQEEEEEDQG RTRKRKQSGH SPARAGKQRM

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	KEKEQENERK VAQLAEENER LKQEIERLTR EVEATRRALI DRMVNLHQA
Molecular Mass	21.3 kDa (189aa), confirmed by MALDI-TOF.
Applications	SDS-PAGE
Storage	Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or - 70 deg C for long term storage. Avoid repeated freeze/thaw cycles.

GENE INFORMATION

Gene Name	DDIT3 DNA-damage-inducible transcript 3 [Homo sapiens]
Official Symbol	DDIT3
Synonyms	DDIT3; DNA-damage-inducible transcript 3; CHOP; CEBPZ; CHOP10; GADD153; MGC4154; C/EBP zeta; DDIT-3; Growth arrest and DNA-damage-inducible protein GADD153; C/EBP-homologous protein; C/EBP homologous protein; CCAAT/enhancer-binding protein homologous protein; growth arrest- and DNA damage-inducible
Gene ID	1649
mRNA Refseq	NM_004083
Protein Refseq	NP_004074
MIM	126337
UniProt ID	P35638

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Chromosome Location	12q13.1-q13.2
Pathway	MAPK signaling pathway; Diabetes pathways
Function	protein dimerization activity; sequence-specific DNA binding; transcription corepressor activity; transcription factor activity

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