

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 |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

KEKEQENERK VAQLAEENER LKQEIERLTR EVEATTRALI 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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