

Recombinant Human DNA-damage-inducible Transcript 3

Cat. No. DDIT3-130H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human DNA-damage-inducible transcript 3 protein expressed in <i>E.coli</i> encodes full length amino acids and has a molecular mass of 52 kDa.
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, inducing nutrient deprivation and metabolic perturbations. 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.
Formulation	Recombinant Human GADD153 protein at 100µg/ml in 50mM Tris-Acetate, pH7.5, 1mM EDTA and 20% Glycerol.
Application	•ELISA •Inhibition Assays •Western Blotting.
Characterization	On SDS-PAGE comassie blue stained gel, the purified recombinant protein shows a band at 52 kDa.
Storage & Stability	Store vial at -20°C to -80°C. When stored at the recommended temperature, this protein is stable for 12 months.

 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

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; 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
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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