

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 100g/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.

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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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