

Recombinant Human Growth Arrest And DNA-damage-inducible, Beta

Cat. No. GADD45B-1370H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human GADD45B produced in <i>E. Coli</i> is a single, non-glycosylated polypeptide chain containing 160 amino acids and having a molecular mass of 17.8 kDa.
Species	Human
Source	E.coli
Description	GADD45B is part of the nuclear proteins to interact with various proteins whose transcript levels are raised after stressful growth arrest conditions and treatment with DNA-damaging agents. GADD45B reacts to environmental stresses by mediating activation of the p38/JNK pathway which is mediated through their protein binding and activating MTK1/MEKK4 kinase, which is an upstream activator of both p38 and JNK MAPKs. GADD45B is involved in the regulation of growth and apoptosis. GADD45b takes part during chondrocyte terminal differentiation and mediates MMP-13 gene expression. GADD45 in B cells is induced by CD40 via a mechanism that involves NF-kappa B and that induction suppresses Fas-mediated killing. GADD45b is down-regulated in most cases of hepatocellular carcinoma (HCC), and is a molecular marker in the diagnosis of HCC and as a possible therapeutic target.
Physical Appearance	Sterile Filtered colorless solution.
Purity	Greater than 95.0% as determined by SDS-PAGE.

 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

Amino Acid Sequence	MTLEELVACD NAAQKMQTVT AAVEELLVAA QRQDRLTVGV YESAKLMNVD PDSVVLCLLA IDEEEEDDIA LQIHFTLIQS FCCDNDINIV RVSGMQRLAQ LLGEP AETQG TTEARDLHCL LVTNPHTDAW KSHGLVEVAS YCEESRGNNQ WVPYISLQER.
Formulation	The GADD45B protein solution contains 20mM Tris-HCl pH-7.5 and 20% glycerol.
Stability	GADD45beta although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Pathways	Cell cycle; MAPK signaling pathway; p53 signaling pathway
GENE INFORMATION	
Gene Name	GADD45B growth arrest and DNA-damage-inducible, beta [Homo sapiens]
Synonyms	growth arrest and DNA-damage-inducible, beta; MYD118; GADD45BETA; DKFZp566B133; GADD45B; myeloid differentiation primary response ; DKFZP566B133 ; Myeloid differentiation primary response protein MyD118; Negative growth regulatory protein MyD118
Gene ID	4616
mRNA Refseq	NM_015675
Protein Refseq	NP_056490
MIM	604948
UniProt ID	O75293

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Chromosome Location	19p13.3
Function	protein binding