9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

GADD45G Human

Growth Arrest and DNA-Damage-Inducible Gamma Human Recombinant
RCP0891

Product Overview

Name	GADD45G Human
Description	
Growth Arrest and DNA-Damage-Inducible Gamma Human Recombinant	
Accession (Primary)	O95257
Synonyms	
DDIT2, GADD45gamma, GADD45G, Growth arrest and DNA-damage-inducible protein GADD45 gamma, Cytokine-responsive protein CR6, DNA-damage-inducible transcript 2, DDIT-2, CR6, GRP17.	
Introduction	
GADD45G 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. GADD45G 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. GADD45G acts as a new-age tumor suppressor however is being frequently inactivated epigenetically in multiple tumors. GADD45G mRNA expression is down-regulated in hepatocellular carcinoma. GADD45G causes cell cycle arrest at G2/M transition when transfected into Hep-G2 cells. GADD45 Gamma induction by androgens involves new protein synthesis. Overexpression of GADD45 Gamma inhibits cell growth and causes morphological modifications in prostate cell lines thus GADD45 gamma takes part in differentiation induction by androgens.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
The GADD45G protein solution (1mg/ml) contains 20mM Tris-HCl pH-7.	
Stability	
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	

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Amino acid sequence

MTLEEVRGQD TVPESTARMQ GAGKALHELL LSAQRQGCLT AGVYESAKVL NVDPDNVTFC VLAAGEEDEG DIALQIHFTL IQAFCCENDIDIVRVGDVQR LAAIVGAGEE AGAPGDLHCI LISNPNEDAW KDPALEKLSL FCEESRSVND WVPSITLPE.

Precautions

GADD45G Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O95257)