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

GADD45A Human

Growth Arrest and DNA-Damage-Inducible Alpha Human Recombinant
RCP0889

Product Overview

Name	GADD45A Human
Description	
Growth Arrest and DNA-Damage-Inducible Alpha Human Recombinant	
Accession (Primary)	P24522
Synonyms	
Growth arrest and DNA damage-inducible protein GADD45 alpha, DNA damage-inducible transcript 1 protein, DDIT-1, GADD45A, DDIT1, GADD45.	
Introduction	
Growth arrest and DNA Damage-Inducible Protein (GADD45A) binds both Cdks and PCNA. GADD45A is involved in DNA replication and repair. GADD45A stimulates DNA excision repair in vitro and inhibits entry of cells into S phase. GADD45A may serve as a link between p53-dependent cell cycle checkpoint and DNA repair. The GADD45A gene belongs to a group of genes whose transcript levels are increased following stressful growth arrest conditions and treatment with DNA-damaging agents. GADD45A responds to environmental stresses by mediating activation of the p38/JNK pathway via MTK1/MEKK4 kinase. GADD45A binds to proliferating cell nuclear antigen.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile filtered colorless solution.	
Formulation	
The GADD45A protein solution contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.1M NaCl.	
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 85.0% as determined by SDS-PAGE.	
Amino acid sequence	
MTLEEFSAGE QKTERMDKVG DALEEVLSKA LSQRTITVGV YEAAKLLNVD PDNVVLCLLA ADEDDDRDVA LQIHFTLIQA FCCENDINIL RVSNPGRLAE LLLLETDAGP AASEGAEQPP DLHCVLVTNP HSSQWKDPAL	

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SQLICFCRES RYMDQWVPVI NLPERLEHHH HHH.

Precautions

GADD45A Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P24522)