
Product Data Sheet

Product Name: GADD45A Human
 Cat. No.: GP23526
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Growth arrest and DNA damage-inducible protein GADD45 alpha; DNA damage-inducible transcript 1 protein; DDIT-1; GADD45A; DDIT1; GADD45.		
Amino Acid Sequence	MTLEEFSSAGE QKTERMDKVG DALEEVLSKA LSQRTITVGV YEAAKLLNVD PDNVVLCLLA ADEDDDRDVA LQIHFTLIQA FCCENDINILRVSNPGRLEA LLLLETDAGP AASEGAEQPP DLHCVLVTNP HSSQWKDPAL SQLICFCRES RYMDQWVPVI NLPERLEHHH HHH.		
Formulation	The GADD45A protein solution contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol and 0.1M NaCl.		

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.

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.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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GADD45A produced in E.Coli is a single, non-glycosylated polypeptide chain containing 173 amino acids (1-165 a.a.) and having a molecular mass of 19.4kDa. GADD45A is fused to 8 amino acids His Tag at C-terminus and purified by proprietary chromatographic techniques.

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