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GADD45A Human

Catalog #:PRPS-790

For research use only.

Description: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.

Synonyms: Growth arrest and DNA damage-inducible protein GADD45 alpha, DNA damage-inducible transcript 1 protein, DDIT-1, GADD45A, DDIT1, GADD45.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence:MTLEEFSAGE QKTERMDKVG DALEEVLSKA LSQRTITVGV YEAAKLLNVD PDNVVLCLLA ADEDDDRDVA LQIHFTLIQA FCCENDINILRVSNPGRLAE LLLLETDAGP AASEGAEQPP DLHCVLVTNP HSSQWKDPAL SQLICFCRES RYMDQWVPVI NLPERLEHHH HHH.

Purity: Greater than 85.0% as determined by SDS-PAGE.

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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

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.

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