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Recombinant human GADD45 alpha protein

Catalog Number: ATGP0548

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-165aa

UniProt No.

P24522

NCBI Accession No.

NP 001915

Alternative Names

Growth arrest and DNA damage-inducible protein GADD45 alpha, DDIT1, GADD45, Growth arrest and DNA damage-inducible protein GADD45 alpha DDIT 1, DNA damage inducible transcript 1, Growth arrest and DNA damage inducible 45 alpha,

PRODUCT SPECIFICATION

Molecular Weight

19.4 kDa (173aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.1M NaCl

Purity

> 85% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

GADD45A, also known as growth arrest and DNA damage-inducible protein, binds both Cdks and PCNA, a protein involved in DNA replication and repair. It has been shown to stimulate DNA excision repair in vitro and to inhibit entry of cells into S phase. This protein may serve as a link between p53-dependent cell cycle checkpoint and DNA repair. Recombinant human GADD45A protein, fused to His-tag at C-terminus, was expressed in E. coli and



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purified by using conventional chromatography techniques.

Amino acid Sequence

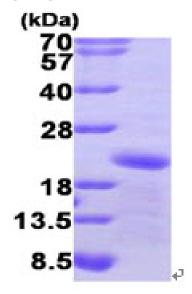
MTLEEFSAGE QKTERMDKVG DALEEVLSKA LSQRTITVGV YEAAKLLNVD PDNVVLCLLA ADEDDDRDVA LQIHFTLIQA FCCENDINIL RVSNPGRLAE LLLLETDAGP AASEGAEQPP DLHCVLVTNP HSSQWKDPAL SQLICFCRES RYMDQWVPVI NLPERLEHHH HHH

General References

Hollander MC. et al. (1993) J Biol Chem. 268(32):24385-93 Takekawa M. et al. (1998) Cell. 95(4):521-30.

DATA





15% SDS-PAGE (3ug)-

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

