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

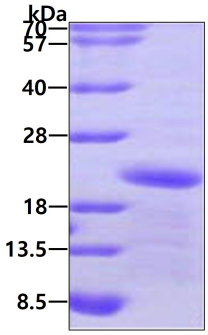
MTLEEFSAGE QKTERMDKVG DALEEVLSKA LSQRTITVGV YEAAKLLNVD PDNVVLCLLA ADEDDDRDVA LQIHFTLIQA FCCENDINIL RVSNPGRLAE LLLLETDAGP AASEGAEQPP DLHCVLVTNP HSSQWKDPAL SQLICFCRES RYMDQWVPVI NLPER<LEHHH HHH>

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

SDS-PAGE



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