

# Recombinant Human GADD45A protein (His tag)

Catalog Number:PDEH100303



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

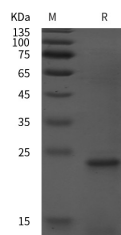
## Description

<b>Synonyms</b>	Growth arrest and DNA damage-inducible protein GADD45 alpha;GADD45A;DNA damage-inducible transcript 1 protein;
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Met 1-Arg 165
<b>Accession</b>	P24522
<b>Calculated Molecular Weight</b>	18.0 kDa
<b>Observed molecular weight</b>	23 kDa
<b>Tag</b>	N-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	Please contact us for more information.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

GADD45 alpha (Growth arrest and DNA damage-inducible protein 45 alpha) is a 19 kDa member of the GADD45 family of proteins. It is ubiquitously expressed, and induced by DNA damage. Upon induction, GADD45 alpha binds to PCNA, stimulates DNA excision repair, and initiates G2 cell cycle arrest. Human GADD45 alpha is 165 amino acids (aa) in length. It is reported to dimerize with GADD45-beta and -gamma, and to homo-dimerize, -trimerize and -tetramerize via residues 33?61 and 133?165. There is one splice variant that shows a Ser substitution for aa 14?49. GADD45 alpha is 55% aa identical to GADD45-beta and -gamma, and shares 94% aa identity with mouse GADD45 alpha.

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