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GADD45A Protein (AA 1-165) (His tag)



Overview

Quantity:	100 μg
Target:	GADD45A
Protein Characteristics:	AA 1-165
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GADD45A protein is labelled with His tag.

Product Details

Sequence:	Met 1-Arg 165
Characteristics:	A DNA sequence encoding the Human GADD45A protein (P24522) (1M-165R) was expressed with N-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	GADD45A
Alternative Name:	GADD45A (GADD45A Products)
Background:	Abbreviation: GADD45A
	Target Synonym: Growth arrest and DNA damage-inducible protein GADD45
	alpha,GADD45A,DNA damage-inducible transcript 1 protein,
	Background: GADD45 alpha (Growth arrest and DNA damage-inducible protein 45 alpha) is a 19

Target Details

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.

Molecular Weight:

Calculated MW: 18.04 kDa

Observed MW: 23 kDa

UniProt:

P24522

Pathways:

p53 Signaling, Cell Division Cycle

Application Details

Restrictions:

For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	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.
Expiry Date:	12 months