

# Recombinant Human Growth Arrest and DNA-damage-Inducible, Gamma

**Cat. No.** GADD45G-359H    **Lot. No.** (See product label)

## SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant humanGADD45G protein was expressed in E.coli and purified by using conventional chromatography techniques, 17.1 kDa (159 aa).                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>              | GADD45G is a member of GADD45 family (GADD45α, β, and γ) that are nuclear proteins to interact with various proteins implicated in stress responses and cell-cycle-related proteins. The function of GADD45 proteins is involved in growth-regulatory mechanisms and apoptosis. GADD45G protein responds to environmental stresses by mediating activation of p38/JNK pathway via MTK1/MEKK4 kinase and its transcript levels are increased following stressful growth arrest conditions and treatment with DNA-damaging agents. |
| <b>Form</b>                     | Liquid. In 20 mM Tris-HCl buffer (pH 7.5).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>                   | > 95% by SDS - PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Concentration</b>            | 1 mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Sequences of amino acids</b> | MTLEEVRGQD TVPESTARMQ GAGKALHELL LSAQRQGCLT AGVYESAKVL<br>NVDPDNVTFC VLAAGEEDEG DIALQIHFTL IQAFCCENDI DIVRVGD VQ R<br>LAAIVGAGEE AGAPGDLHCI LISNPNEAW KDPALKLSL FCEESRSVND                                                                                                                                                                                                                                                                                                                                                       |

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WVPSITLPE

**Storage**

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

**GENE INFORMATION**

**Gene Name**

GADD45G growth arrest and DNA-damage-inducible, gamma [ Homo sapiens ]

**Synonyms**

growth arrest and DNA-damage-inducible, gamma; GADD45-gamma; OTTHUMP00000021623; gadd-related protein, 17 kD; GADD45G; DDIT2; GADD45gamma; CR6; GRP17; DDIT-2; Cytokine-responsive protein CR6; DNA-damage-inducible transcript 2.

**Gene ID**

10912

**mRNA Refseq**

NM\_006705

**Protein Refseq**

NP\_006696

**MIM**

604949

**UniProt ID**

O95257

**Chromosome  
Location**

9q22.1-q22.2

**Function**

protein binding

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