

# Recombinant Full Length Human GADD45A Protein, GST-tagged

**Cat. No.** GADD45A-5206HF    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human GADD45A full-length ORF ( AAH11757.1, 1 a.a. - 165 a.a.) recombinant protein with GST-tag at N-terminal.                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | In Vitro Cell Free System                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 165 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | This gene is a member of a group of genes whose transcript levels are increased following stressful growth arrest conditions and treatment with DNA-damaging agents. The protein encoded by this gene responds to environmental stresses by mediating activation of the p38/JNK pathway via MTK1/MEKK4 kinase. The DNA damage-induced transcription of this gene is mediated by both p53-dependent and -independent mechanisms. [provided by RefSeq] |
| <b>Molecular Mass</b>   | 44.7 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>AA Sequence</b>      | MTLEEFSAEQKTERMDKVGDALEEVLSKALSQRTITVGVYEA AKLLNVDPDNVVLCLLA ADEDDDRDVALQIHFTLIQAFCCENDINILRVSNPGR LAELL LLET DAGPAASEGA EQPPDLHCVLVTNPHSSQWKDPALSQLICFCRESRYMDQWVPVINLPER                                                                                                                                                                                                                                                                           |
| <b>Applications</b>     | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)                                                                                                                                                                                                                                                                                                                                                                            |

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|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | Antibody Production<br>Protein Array                                                                                                                                                                                                                                                                          |
| <b>Notes</b>            | Best use within three months from the date of receipt of this protein.                                                                                                                                                                                                                                        |
| <b>Storage</b>          | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                      |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.                                                                                                                                                                                                                                      |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                                                               |
| <b>Gene Name</b>        | GADD45A growth arrest and DNA-damage-inducible, alpha [ Homo sapiens ]                                                                                                                                                                                                                                        |
| <b>Official Symbol</b>  | GADD45A                                                                                                                                                                                                                                                                                                       |
| <b>Synonyms</b>         | GADD45A; growth arrest and DNA-damage-inducible, alpha; DDIT1; growth arrest and DNA damage-inducible protein GADD45 alpha; GADD45; DDIT-1; DNA damage-inducible transcript-1; DNA-damage-inducible transcript 1; DNA damage-inducible transcript 1 protein; growth arrest and DNA-damage-inducible 45 alpha; |
| <b>Gene ID</b>          | 1647                                                                                                                                                                                                                                                                                                          |
| <b>mRNA Refseq</b>      | NM_001199741                                                                                                                                                                                                                                                                                                  |
| <b>Protein Refseq</b>   | NP_001186670                                                                                                                                                                                                                                                                                                  |
| <b>MIM</b>              | 126335                                                                                                                                                                                                                                                                                                        |
| <b>UniProt ID</b>       | P24522                                                                                                                                                                                                                                                                                                        |

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