

## Product datasheet for **TP304005**

### GADD45A (NM\_001924) Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human growth arrest and DNA-damage-inducible, alpha (GADD45A), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC204005 protein sequence <b>Red</b> =Cloning site <b>Green</b> =Tags(s)
	 MTLEEFSAEQKTERMDKVGDALEEVLSKALSQRTITVGVYEAAKLLNVDPDNVWLCLLAEDDDDRDVA LQIHFTLIQAFCCENDINILRVSNPGRLAELLLLETDAGPAASEGAEQPPDLHCVLVTNPHSSQWKDPAL SQLICFCRESRYMDQWVPVINLPER  <b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b>
Tag:	C-Myc/DDK
Predicted MW:	18.2 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u><a href="#">NP_001915</a></u>
Locus ID:	1647
UniProt ID:	<u><a href="#">P24522</a></u>



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RefSeq Size: 1398

Cytogenetics: 1p31.3

RefSeq ORF: 495

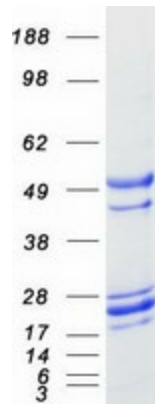
Synonyms: DDIT1; GADD45

**Summary:** 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. Alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.[provided by RefSeq, Dec 2010]

**Protein Families:** Druggable Genome, Stem cell - Pluripotency

**Protein Pathways:** Cell cycle, MAPK signaling pathway, p53 signaling pathway

### Product images:



Coomassie blue staining of purified GADD45A protein (Cat# TP304005). The protein was produced from HEK293T cells transfected with GADD45A cDNA clone (Cat# [RC204005]) using MegaTran 2.0 (Cat# [TT210002]).