

## Product datasheet for PH304005

### GADD45A (NM\_001924) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	GADD45A MS Standard C13 and N15-labeled recombinant protein (NP_001915)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204005
Predicted MW:	18.3 kDa
Protein Sequence:	<p>&gt;RC204005 protein sequence</p> <p>Red=Cloning site Green=Tags(s)</p> <p>MTLEEFSAEQKTERMDKVGDALEEVLSKALSQRTITVGYYEAAKLLNVDPDNVVLCLLAEDDDRDVA            LQIHFTLIQAFCCENDINILRVSNPGRLAELLLLETDAGPAASEGAEQPPDLHCVLVTNPSSQWKDPAL            SQLICFCRESRYMDQWVPVINLPER</p> <p>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</p>
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_001915</u>
RefSeq Size:	1398
RefSeq ORF:	495
Synonyms:	DDIT1; GADD45
Locus ID:	1647
UniProt ID:	<u>P24522</u>


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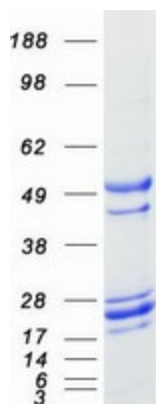
**Cytogenetics:** 1p31.3

**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]).