

# Recombinant Human GADD45?/GADD45G Protein (His Tag)



Catalog Number:PKSH032468

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

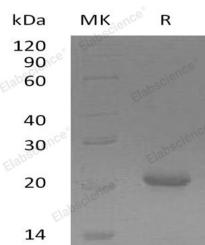
## Description

<b>Synonyms</b>	Growth Arrest and DNA Damage-Inducible Protein GADD45 Gamma;Cytokine-Responsive Protein CR6;DNA Damage-Inducible Transcript 2 Protein;DDIT-2;GADD45G;CR6;DDIT2
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Met 1-Glu159
<b>Accession</b>	O95257
<b>Calculated Molecular Weight</b>	19.3 kDa
<b>Observed molecular weight</b>	21 kDa
<b>Tag</b>	N-His

## Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per $\mu$ g of the protein as determined by the LAL method.
<b>Storage</b>	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.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 8.0. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the print
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

## Data



> 95 % as determined by reducing SDS-PAGE.

## Background

Growth Arrest and DNA Damage-Inducible Protein GADD45  $\gamma$  (GADD45G) is a nuclear protein which belongs to the GADD45 family. GADD45G is highly expressed in placenta. GADD45G interacts with various proteins whose transcript levels are increased following stressful growth arrest conditions and treatment with DNA-damaging agents. GADD45G responds to environmental stresses by mediating activation of the p38/JNK pathway via MTK1/MEKK4 kinase. GADD45G is also involved in the regulation of growth and apoptosis. GADD45G inhibits cell growth and differentiation

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by androgens. The mRNA expression is down-regulated in hepatocellular carcinoma.

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