

## Recombinant Human GADD45A/DDIT-1 Protein (His Tag)

**Catalog No.** PKSH033661

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

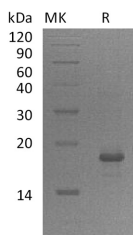
### Description

<b>Synonyms</b>	Growth Arrest and DNA Damage-Inducible Protein GADD45 Alpha;DNA Damage-Inducible Transcript 1 Protein;DDIT-1;GADD45A;DDIT1;GADD45
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Met1-Arg165
<b>Accession</b>	P24522
<b>Calculated Molecular Weight</b>	20.5 kDa
<b>Observed molecular weight</b>	18 kDa
<b>Tag</b>	N-His
<b>Bioactivity</b>	Not validated for activity

### Properties

<b>Purity</b>	> 95 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg 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 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<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 α (GADD45A) is a member of the GADD45 family.

### For Research Use Only

GADD45A can be induced by UV irradiation; X-rays; growth arrest and alkylating agents; of which can be mediated by some kinases other than PKC. GADD45A can interact with MAPK14; GADD45GIP1; PCNA. In T-cells; GADD45A functions as a regulator of p38 MAPKs by inhibiting p88 phosphorylation and activity. GADD45A may affect PCNA interaction with some cell division protein kinase complexes; stimulating DNA excision repair in vitro and inhibits entry of cells into S phase.