

GADD45B Protein, Human, Recombinant (His)

General Information

Synonyms:	MYD118; Myeloid Differentiation Primary Response Protein MyD118; Growth Arrest and DNA Damage-Inducible Protein GADD45 Beta; Growth Arrest and DNA Damage-Inducible Protein GADD45 β ; GADD45B; Negative Growth Regulatory Protein MyD118
Protein Construction:	Met1-Arg160
Species:	Human
Expression Host:	E. coli
Accession:	O75293
Molecular Weight:	24 KDa (reducing condition)
AA Sequence:	Met1-Arg160

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/ μ g (1 EU/ μ g) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μ m filter, containing 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Growth Arrest and DNA Damage-Inducible Protein GADD45 β (GADD45B) is a member of the GADD45 family. GADD45B has been shown to interact with MAP3K4, ASK1, MAP2K7, and GADD45GIP1. GADD45B is involved in the regulation of growth and apoptosis. GADD45B reacts to environmental stresses by mediating activation of stress-

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responsive MTK1/MEKK4 kinase, which is an upstream activator of both p38 and JNK MAPKs. In addition, GADD45B participates in the down-regulation of hepatocellular carcinoma (HCC). It may serve as a possible therapeutic target.

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