## **PRODUCT INFORMATION**

**Expression system** E.coli

**Domain** 1-160aa

**UniProt No.** 075293

NCBI Accession No. NP\_056490

#### **Alternative Names**

Growth arrest and DNA-damage-inducible beta, MYD118, Growth arrest and DNA-damage-inducible beta, GADD45B, Growth arrest and DNA-damage-inducible, beta GADD45 Beta, GADD45BETA, ADD45 beta, growth arrest and DNA-damage-inducible 45 beta, Growth arrest and DNA-damage-inducible protein, myeloid differentiation primary response gene, Myeloid differentiation primary response protein MyD118, Negative growth-regulatory protein MyD118.

# **PRODUCT SPECIFICATION**

### **Molecular Weight**

17.8 kDa (160aa) confirmed by MALDI-TOF

**Concentration** 1mg/ml (determined by Bradford assay)

**Formulation** Liquid in. 20mM Tris-HCl buffer (pH 7.5)

**Purity** > 95% by SDS-PAGE

**Tag** Non-Tagged

Application SDS-PAGE

### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

# BACKGROUND

### Description

GADD45B is a member of GADD45 family (GADD45alpha, beta, and gamma) that are nuclear proteins to interact with various proteins implicated in stress responses and cell-cycle-related proteins. The function of GADD45



proteins is involved in growth-regulatory mechanisms and apoptosis. GADD45B is necessary for adult neurogenesis, including brain-derived neurotrophic factor and fibroblast growth factor. And therefore, this protein is implicated in affecting synaptic plasticity. Recombinant GADD45B protein was expressed in E. coli and purified by using conventional chromatography techniques.

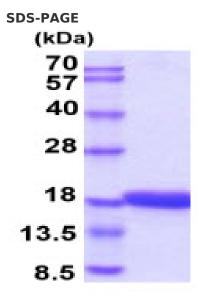
#### **Amino acid Sequence**

MTLEELVACD NAAQKMQTVT AAVEELLVAA QRQDRLTVGV YESAKLMNVD PDSVVLCLLA IDEEEDDIA LQIHFTLIQS FCCDNDINIV RVSGMQRLAQ LLGEPAETQG TTEARDLHCL LVTNPHTDAW KSHGLVEVAS YCEESRGNNQ WVPYISLQER

#### **General References**

Takekawa M., et al. (1998) Cell 95(4), 521-30 Zerbini LF., et al. (2004) PNAS 101(37), 13618-23

## DATA



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15 % SDS-PAGE (3ug)