



Product Datasheet

Product Name	Growth Arrest and DNA-Damage-Inducible Beta Human Recombinant
Cata No	CB501175
Source	<i>Escherichia Coli.</i>
Synonyms	MYD118, GADD45BETA, GADD45B, Growth arrest and DNA-damage-inducible protein GADD45 beta, Myeloid differentiation primary response protein MyD118, Negative growth regulatory protein MyD118, DKFZp566B133.

Description

GADD45B is part of the nuclear proteins to interact with various proteins whose transcript levels are raised after stressful growth arrest conditions and treatment with DNA-damaging agents. GADD45B reacts to environmental stresses by mediating activation of the p38/JNK pathway which is mediated through their protein binding and activating MTK1/MEKK4 kinase, which is an upstream activator of both p38 and JNK MAPKs. GADD45B is involved in the regulation of growth and apoptosis. GADD45b takes part during chondrocyte terminal differentiation and mediates MMP-13 gene expression. GADD45 in B cells is induced by CD40 via a mechanism that involves NF-kappa B and that induction suppresses Fas-mediated killing. GADD45b is down-regulated in most cases of hepatocellular carcinoma (HCC), and is a molecular marker in the diagnosis of HCC and as a possible therapeutic target. GADD45B Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 160 amino acids and having a molecular

mass of 17.8 kDa.

Physical Appearance

Sterile Filtered colorless solution.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Formulation

The GADD45B protein solution contains 20mM Tris-HCl pH-7.5 and 20% glycerol.

Stability

GADD45beta although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent freeze-thaw cycles.

Sequence

MTLEELVACD NAAQKMQTVT AAVEELLVAA
QRQDRLTVGV YESAKLMNVD PDSVVLCLLA
IDEEEDDIA LQIHFTLIQS FCCDNDINIV
RVSGMQRLAQ LLGEP AETQG TTEARDLHCL
LVTNPHTDAW KSHGLVEVAS YCEESRGNNQ
WVPYISLQER.