www.neobiolab.com
info@neobiolab.com
888.754.5670, +1 617.500.7103 United States
0800.088.5164, +44 020.8123.1558 United Kingdom

GADD45G Human

Description:GADD45G Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 159 amino acids and having a molecular mass of 17.1 kDa.

Catalog #:PRPS-577

Synonyms:DDIT2, GADD45gamma, GADD45G, Growth arrest and DNA-damage-inducible protein GADD45 gamma, Cytokine-responsive protein CR6, DNA-damage-inducible transcript 2, DDIT-2, CR6, GRP17.

For research use only.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MTLEEVRGQD TVPESTARMQ GAGKALHELL LSAQRQGCLT AGVYESAKVL NVDPDNVTFC VLAAGEEDEG DIALQIHFTL IQAFCCENDIDIVRVGDVQR LAAIVGAGEE AGAPGDLHCI LISNPNEDAW KDPALEKLSL FCEESRSVND WVPSITLPE.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:
The GADD45G protein solutioncontains 20mM Tris-HCl pH-7.

Stability:
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
GADD45G 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. GADD45G reacts to environmental stresses by mediating activation of the p38/JNK pathway which is mediated throµgh their protein binding and activating MTK1/MEKK4 kinase, which is an upstream activator of both p38 and JNK MAPKs. GADD45G acts as a new-age tumor suppressor however is being frequently inactivated epigenetically in multiple tumors. GADD45G mRNA expression is down-regulated in hepatocellular carcinoma. GADD45G causes cell cycle arrest at G2/M transition when transfected into Hep-G2 cells. GADD45 Gamma induction by androgens involves new protein synthesis. Overexpression of GADD45 Gamma inhibits cell growth and causes morphological modifications in prostate cell lines thus GADD45 gamma takes part in differentiation induction by androgens.

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