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California Bioscience

Product Datasheet

Product Name	DNA Damage Inducible Transcript 3 Human Recombinant
Cata No	CB501495
Source	*Escherichia Coli.*
Synonyms	DNA damage-inducible transcript 3, DDIT-3, Growth arrest and DNA-damage-inducible protein GADD153, C/EBP-homologous protein, CHOP, DDIT3, GADD153, CEBPZ, CHOP10, MGC4154.

Description

DDIT3 reduces DNA-binding activity of C/EBP and lap by forming heterodimers which don't bind DNA. DDIT3, also known as GADD153, is a basic domain-leucine zipper(bZIP) transcription factor of C/EBP family. DDIT3 protein is up-regulated by several stresses, such as amino acid or glucose starvation, endoplasmic reticulum (ER) stress, osmotic stress and hypoxia. DDIT3 protein is invloved in ER stress-mediated apoptosis and in disease including diabetes, brain ischemia and neurodegenerative disease. DDIT3 plays a role in asoprisnil-induced apoptosis.
Hypoglycaemia-induced necrotic cell death of neuroblastoma cells is an active process mediated via the induction of the transcription factor DDIT3. DDIT3 plays an important role in melanoma progression. HRG stimulation of mammary epithelial cells induces the expression of DDIT3 mRNA and protein and transcription of DDIT3 promoter.
DDIT3 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 189 amino acids and having a molecular mass of 21 kDa. The DDIT3 protein is fused to a 20 amino acids His tag at N-terminus.
The DDIT3 is purified by proprietary chromatographic techniques

Physical Appearance

Sterile Filtered colorless solution.

Purity

Greater than 90.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Formulation

The DDIT3 protein solution (1mg/ml) contains 20mM Tris-HCl pH-8 and 20% glycerol.

Stability

DDIT3 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

MGSSHHHHHH SSGLVPRGSH MAAESLPFSF GTLSSWELEA WYEDLQEVLS SDENGGTYVS PPGNEEEESK IFTTLDPASL AWLTEEEPEP AEVTSTSQSP HSPDSSQSSL AQEEEEEDQG RTRKRKQSGH SPARAGKQRM KEKEQENERK VAQLAEENER LKQEIERLTR EVEATRRALI DRMVNLHQA.

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