Recombinant human DDIT-3/CHOP protein

Catalog Number: GAD0801

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-169aa

UniProt No.
P35638

NCBI Accession No.
NP_004074

Alternative Names
DNA damage-inducible transcript 3 protein, C/EBP zeta, CEBPZ, C/EBP-homologous protein, CHOP, C/EBP-homologous protein 10, CHOP-10, CCAAT/enhancer-binding protein homologous protein, Growth arrest and DNA damage-inducible protein GADD153

PRODUCT SPECIFICATION

Molecular Weight
21.3 kDa (189aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol

Purity
> 90% by SDS-PAGE

Tag
His-Tag

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
GADD153, also known as DNA-damage-inducible transcript 3 (DDIT3), is a basic domain-leucine zipper (bZIP) transcription factor of C/EBP family. This protein has been shown to be up-regulated by several stresses, such as amino acid or glucose starvation, endoplasmic reticulum (ER) stress, osmotic stress and hypoxia. GADD153 protein may play a role in ER stress-mediated apoptosis and in disease including diabetes, brain ischemia and

neurodegenerative disease. Recombinant GADD153 fused with His-tag, was expressed in E. coli and purified by conventional chromatography techniques.

Amino acid Sequence

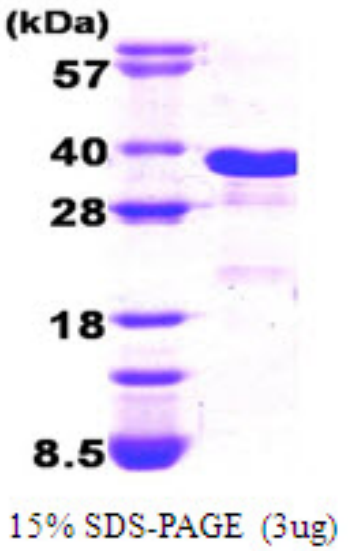
MGSSHHHHHH SSGLVPRGSH MAAESLPFSF GTLSSWELEA WYEDLQEVLS SDENGGTYVS PPGNEEEESK IFTTLDPASL AWLTEEEPEP AEVTSTSQSP HSPDSSQSSL AQEEEEEDQG RTRKRKQSGH SPARAGKQRM KEKEQENERK VAQLAEENER LKQEIERLTR EVEATRRALI DRMVNLHQA

General References

Oyadomari S. and Mori M., et al.(2004) Cell death and differentiation,11: 381-389.
Robert M. Silva.,et al:(2005) Journal of Neurochemistry
95(4):974-986.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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