

Recombinant human TIGAR/C12orf5 protein

Catalog Number: ATGP0835

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-270aa

UniProt No.

Q9NQ88

NCBI Accession No.

NP_065108.1

Alternative Names

TP53-induced glycolysis and apoptosis regulator

PRODUCT SPECIFICATION

Molecular Weight

32.6 kDa (294aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 2mM DTT, 10% 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

TIGAR, also known as TP53-induced glycolysis and apoptosis regulator, is a 270 amino acid protein induced by the p53 tumor suppressor pathway that functions to protect against oxidative stress. TIGAR specifically functions to block glycolysis, leading the pathway to the pentose phosphate shunt and decreasing the intracellular concentration of reactive oxygen species. These facts indicate that TIGAR may act to modulate the apoptotic response to p53, thereby allowing cells to survive mild or transient stresses. Recombinant human TIGAR protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography

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techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSH>MARFAL TVVRHGETRF NKEKIIQGQG VDEPLSETGF KQAAAAGIFL
NNVKFTHAFS SDLMRTKQTM HGILERSKFC KDMTVKYDSR LRERKYGVVE GKALSELRAM AKAAREECPV FTPPGGETLD
QVKMRGIDFF EFLCQLILKE ADQKEQFSQG SPSNCLETSL AEIFPLGKNH SSKVNSDSGI PGLAASVLVV SHGAYMRS LF
DYFLTDLKCS LPATLSRSEL MSVTPNTGMS LFIINFEEGR EVKPTVQCIC MNLQDHLNGL TETR

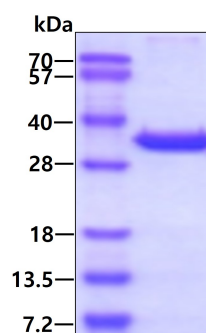
General References

Bensaad K., et al. (2009) EMBO J. 28(19):3015-26.

Hasegawa H., et al. (2009) Leukemia. 23(11):2090-101.

DATA

SDS-PAGE



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