

Recombinant Human Chromosome 12 Open Reading Frame 5, His-tagged

Cat. No. C12orf5-3371H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant human TIGAR protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques. MW = 32.6 kDa (294aa).

Species Human

Source E.coli

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.

Form Liquid. In 20 mM Tris-HCl buffer (pH8.0) containing 0.2M NaCl, 2mM DTT, 10% glycerol.

Purity > 90% by SDS - PAGE.

Concentration 0.5 mg/ml (determined by Bradford assay).

Sequences Of Amino MGSSHHHHHH SSGLVPRGSH MGSHMARFAL TVVRHGETRF NKEKIIQQQG

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Acids

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.

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name

[C12orf5 chromosome 12 open reading frame 5 \[Homo sapiens \]](#)

Synonyms

chromosome 12 open reading frame 5; TIGAR; C12orf5; probable fructose-2,6-bisphosphatase TIGAR; transactivated by NS3TP2 protein; TP53-induced glycolysis and apoptosis regulator; EC 3.1.3.46

Gene ID

[57103](#)

mRNA Refseq

[NM_020375](#)

Protein Refseq

[NP_065108](#)

MIM

[610775](#)

UniProt ID

[Q9NQ88](#)

Chromosome Location

12p13.3

Function

fructose-2,6-bisphosphate 2-phosphatase activity; hydrolase activity

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