

Recombinant Human TIGAR protein

Cat. No. TIGAR-1046H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TIGAR protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	270
Description	This gene is regulated as part of the p53 tumor suppressor pathway and encodes a protein with sequence similarity to the bisphosphate domain of the glycolytic enzyme that degrades fructose-2,6-bisphosphate. The protein functions by blocking glycolysis and directing the pathway into the pentose phosphate shunt. Expression of this protein also protects cells from DNA damaging reactive oxygen species and provides some protection from DNA damage-induced apoptosis. The 12p13.32 region that includes this gene is paralogous to the 11q13.3 region.
Form	Lyophilized from a 0.2µm filtered concentrated solution in 20 mM Tris-HCl, pH8.5, 150 mM NaCl.
Molecular Mass	Approximately 30.1 kDa, a single non-glycosylated polypeptide chain containing 270 amino acids.
AA Sequence	MARFALTVVRHGETRFNKEKIIQGQGVDEPLSETGFKQAAAAGIFLNNVKFTHAFSS DLMRTKQTMHGILERSKFCKDMTVKYDSRLRERKYGVVEGKALSELRAMAKAAREE CPVFTPPGGETLDQVKMRGIDFFEFCLQLILKEADQKEQFSQGSNSNCLETSLAEIFP

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

LGKNHSSKVNDSGIPGLAASVLVSHGAYMRSFLDYFLTDLKCSLPATLSRSELM
VTPNTGMSLFIINFEEGREVKPTVQCICMNLQDHLNGLTETR

Endotoxin Less than 0.1 EU/μg of rHuTIGAR as determined by LAL method.

Purity >95% by SDS-PAGE and HPLC analysis.

Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.

Reconstitution We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name TIGAR

Official Symbol TIGAR

Gene ID 57103

mRNA Refseq NM_020375.3

Protein Refseq NP_065108.1

MIM 610775

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UniProt ID

Q9NQ88

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