

Recombinant Human TIGAR protein

Cat. No. TIGAR-1386H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TIGAR-TAT protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	283
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 30 % Acetonitrile, 0.1% TFA.
Bio-activity	Fully biologically active when compared to standard. The biological activity determined by its ability to protect U2OS cells from apoptosis induced by hydrogen peroxide is in a concentration range of 0.1-5.0 µg/ml, after pretreating with rHuTIGAR-TAT for 4 hours.
Molecular Mass	Approximately 31.7 kDa, a single non-glycosylated polypeptide chain containing 283

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	amino acids.
AA Sequence	MARFALTVVRHGETRFNKEKIIQGQGVDEPLSETGFKQAAAAGIFLNNVKFTHAFSS DLMRTKQTMHGILERSKFCCKDMTVKYDSRLRERKYGVVEGKALSELRAMAKAAREE CPVFTPPGGETLDQVKMRGIDFFEFLCQLILKEADQKEQFSQGSPSNCLETSLAEIFP LGKNHSSKVNDSGIPGLAASVLVSHGAYMRSLFDYFLTDLKCSLPATLSRSELMS VTPNTGMSLFIINFEEGREVKPTVQCICMNLQDHLNGLTETRGGYGRKKRRQRRR
Endotoxin	Less than 0.1 EU/μg of rHuTIGAR-TAT as determined by LAL method.
Purity	>96% 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

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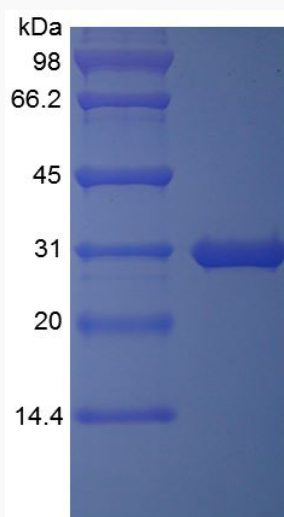
mRNA Refseq [NM_020375.3](#)

Protein Refseq [NP_065108.1](#)

MIM [610775](#)

UniProt ID [Q9NQ88](#)

SDS-PAGE of TIGAR-1386H



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