

## TIGAR (C12ORF5) Human Recombinant, TAT

<b>Item Number</b>	rAP-4951
<b>Synonyms</b>	Fructose-2,6-bisphosphatase TIGAR, TP53-induced glycolysis and apoptosis regulator, TIGAR, C12orf5.
<b>Description</b>	TIGAR Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 283 amino acids (including the 270 residues of full-length TIGAR and a 13-residue C-terminal TAT peptide) and having a molecular mass of 31.7kDa. The TIGAR is purified by proprietary chromatographic tech-
<b>Uniprot Accesion Number</b>	Q9NQ88
<b>Amino Acid Sequence</b>	MARFALTVVR HGETRFNKEK IIQQGGVDEP LSETGFKQAA AAGIFLNNVK FTHAFSSDLM RTKQTMH-GIL ERSKFCKDMT VKYDSRLRER KYGVVEGKAL SELRAMAKAA REECPVFTPP GGETLDQVKM RGID-FFEFLC QLILKEADQK EQFSQGSPSN CLESLAEIF PLGKNHSSKV NSDSGIPGLA ASVLVSHGA YMRSLFDYFL TDLKCSPAT LSRSEMSVT PNTGMSLFII NFEEGREVKP TVQCICMNLQ DHLNGLTETR GGYGRKKRRQ RRR.
<b>Source</b>	Escherichia Coli.
<b>Physical Appearance and Stability</b>	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized TIGAR stable at room temperature for 3 weeks, should be stored desiccated below -18C. Upon reconstitution TIGAR should be stored at 4C between 2-7 days and for future use below -18C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
<b>Formulation and Purity</b>	TIGAR was Lyophilized from a 0.2µm filtered concentrated solution in 20mM PBS, pH7.0, 350mM NaCl and 5% Trehalose. Greater than 95.0% as determined by: (a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	It is recommended to reconstitute the lyophilized TIGAR in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
<b>Biological Activity</b>	The Specific Activity was measured by its ability to protect U2OS cells from apoptosis induced by hydrogen peroxide in a concentration range of 0.1-5.0 µg/ml, after pretreating with rHuTIGAR-TAT for 4 hours.
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**