

## 32-5087: Recombinant Human TIGAR

**Alternative Name :** Fructose-2,6-bisphosphatase TIGAR,TP53-induced glycolysis and apoptosis regulator,TIGAR,C12orf5.

### Description

Source : Escherichia Coli. TIGAR Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 270 amino acids and having a molecular mass of 30.1kDa. The TIGAR is purified by proprietary chromatographic techniques. TIGAR is a p53-inducible enzyme which catalyzes the hydrolysis of fructose-2-6 bisphosphate (F-2-6-BP) to fructose-6-phosphate and inorganic phosphate. F-2-6-BP is an influential activator of 6-phosphofructose-1 kinase (the rate limiting enzyme of glycolysis). By lowering the intracellular level of F-2-6-BP, TIGAR expression leads to increased glucose processing through the pentose phosphate pathway, the main cellular source for NADPH.

### Product Info

<b>Amount :</b>	25 µg
<b>Purification :</b>	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
<b>Content :</b>	TIGAR was Lyophilized from a 0.2µm filtered concentrated solution in 20mM Tris-HCl, pH8.5, 150mM NaCl.
<b>Storage condition :</b>	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>Amino Acid :</b>	MARFALTVVR HGETRFNKEK IIQGQGVDEP LSETGFKQAA AAGIFLNNVK FTHAFSSDLM RTKQTMHGIL ERSKFCKDMT VKYDSRLRER KYGVVEGKAL SELRAMAKAA REECPVFTPP GGETLDQVKM RGIDFFFLC QLILKEADQK EQFSQGSPSN CLETSLAEIF PLGKNHSSKV NSDSGIPGLA ASVLVSHGA YMRSFLDYFL TDLKCSLPAT LSRSELM SVT PNTGMSLFII NFEEGREVKP TVQCICMNLQ DHLNGLTETR

### Application Note

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.

