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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

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

Application Note

It is recommended to reconstitute the lyophilized TIGAR in sterile 18M-cm H2O not less than 100ÃÂµg/ml, which can then be further diluted to other aqueous solutions.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.