
Product Data Sheet

Product Name: C12ORF5 Human
 Cat. No.: GP22919
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Fructose-2;6-bisphosphatase TIGAR; TP53-induced glycolysis and apoptosis regulator; TIGAR; C12orf5.		
Amino Acid Sequence	MARFALTVVR HGETRFNKEK IIQGQGVDEP LSETGFKQAA AAGIFLNNVK FTHAFSSDLM RTKQTMHGIL ERSKFKDMD VKYDSRLRER KYGVVEGKAL SELRAMAKAA REECPVFTPP GGETLDQVKM RGIDFFEFLC QLILKEADQK EQFSQGSPSN CLETSLAEIF PLGKNHSSKV NSDSGIPGLA ASVLVSHGA YMRSLFDYFL TDLKCSLPAT LSRSELSVT PNTGMSLFIINFEEGREVKP TVQCICMNLQ DHLNGLTETR		
Solubility	It is recommended to reconstitute the lyophilized TIGAR in sterile 18M-cm H ₂ O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	TIGAR was Lyophilized from a 0.2 µm filtered concentrated solution in 20mM Tris-HCl, pH8.5, 150mM NaCl.		

Introduction

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.

Stability

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

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

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.

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