
Product Data Sheet

Product Name: C12ORF5 Human, His
 Cat. No.: GP22918
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Probable fructose-2;6-bisphosphatase TIGAR; TP53-induced glycolysis and apoptosis regulator; TIGAR; C12orf5.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMMARFAL TVVRHGETRF NKEKIIQGQG VDEPLSETGF KQAAAAGIFL NNVKFTTHAFS SDLMRTKQTM HGILERSKFC KDMTVKYDSR LRERKYGVVE GKALSELRAM AKAAREECPV FTTPGGETLD QVKMRGIDFF EFLCQLILKE ADQKEQFSQG SPSNCLETSL AEIFPLGKNH SSKVNSDSGI PGLAASVLVW SHGAYMRS LF DYFLTDLKCS LPATLSRSEL MSVTPNTGMS LFIINFEEGR EVKPTVQCIC MNLQDHLNGL TETR.		
Formulation	The C12ORF5 solution (0.5 mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 0.2M NaCl, 2mM DTT and 10% glycerol.		

Introduction

TP53-induced glycolysis and apoptosis regulator (TIGAR or C12ORF5), is a 270 amino acid protein induced by the p53 tumor suppressor pathway that functions to protect against oxidative stress. C12ORF5 specifically functions to block glycolysis, leading the pathway to the pentose phosphate shunt and decreasing the intracellular concentration of reactive oxygen species. Therefore, it is thought that C12ORF5 may act to modulate the apoptotic response to p53, thus allowing cells to survive mild or transient stresses.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

C12ORF5 Human Recombinant fused with a 24 amino acid His tag at N-terminus

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

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produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 294 amino acids (1-270 a.a.) and having a molecular mass of 32.6kDa. The C12ORF5 is purified by proprietary chromatographic techniques.

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