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C12ORF5 Human

Catalog #:PRPS-058

For research use only.

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

Synonyms: Probable fructose-2,6-bisphosphatase TIGAR, TP53-induced glycolysis and apoptosis regulator, TIGAR, C12orf5.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MGSHMARFAL TVVRHGETRF NKEKIIQGQG VDEPLSETGF KQAAAAGIFL NNVKFTHAFS SDLMRTKQTM HGILERSKFC KDMTVKYDSR LRERKYGVVE GKALSELRAM AKAAREECPV FTPPGGETLD QVKMRGIDFF EFLCQLILKE ADQKEQFSQG SPSNCLETSL AEIFPLGKNH SSKVNSDSGI PGLAASVLVV SHGAYMRSLF DY

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:
The C12ORF5 solution (0.5 mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 0.2M NaCl, 2mM DTT and 10% glycerol.

Stability:
C12ORF5 should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

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 thoµght that C12ORF5 may act to modulate the apoptotic response to p53, thus allowing cells to survive mild or transient stresses.

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