

Recombinant Human C12ORF5

Cat. No. C12ORF5-30301TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human TIGAR fused to a 13-residue C-terminal peptide containing the TAT transduction domain ; 284 amino acids, 36kDa.
Species	Human
Source	E.coli
ProteinLength	270 amino acids
Description	This gene is regulated as part of the p53 tumor suppressor pathway and encodes a protein with sequence similarity to the bisphosphate domain of the glycolytic enzyme that degrades fructose-2,6-bisphosphate. The protein functions by blocking glycolysis and directing the pathway into the pentose phosphate shunt. Expression of this protein also protects cells from DNA damaging reactive oxygen species and provides some protection from DNA damage-induced apoptosis. The 12p13.32 region that includes this gene is paralogous to the 11q13.3 region.
Molecular Weight	36.000kDa inclusive of tags
Form	Lyophilised
Purity	>95% by SDS-PAGE
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

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Sequences of amino acids

MARFALTVVRHGETRFNKEKIIQGQGVDEPLSETGFKQAA AAGIFLNNVKFTHAFSS
 DLMRTKQTMHGILERSKFCKDMT VKYDSRLRERKYGVVEGKALSELRAMAKAARE
 ECPVFTPP GGETLDQVKMRGIDFFFLCQLILKEADQKEQFSQGSPSN CLETSLAEI
 FPLGKNHSSKVNDSGIPGLAASVLVSHGA YMRS�FDYFLTDLKCSLPATLSRSEL
 MSVTPNTGMSLFII NFEEGREVKPTVQCICMNLQDHLNGLTETRGGGYGRKKRR Q
 RRR

Sequence Similarities

Belongs to the phosphoglycerate mutase family.

GENE INFORMATION

Gene Name C12orf5 chromosome 12 open reading frame 5 [Homo sapiens]

Official Symbol C12ORF5

Synonyms C12ORF5; chromosome 12 open reading frame 5; probable fructose-2,6-bisphosphatase TIGAR; TIGAR; TP53 induced glycolysis and apoptosis regulator;

Gene ID 57103

mRNA Refseq NM_020375

Protein Refseq NP_065108

MIM 610775

Uniprot ID Q9NQ88

Chromosome Location 12p13.32

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Pathway	Direct p53 effectors, organism-specific biosystem; Fructose and mannose metabolism, organism-specific biosystem; Fructose and mannose metabolism, conserved biosystem;
Function	fructose-2,6-bisphosphate 2-phosphatase activity; hydrolase activity;

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