

Recombinant Human C12ORF5, His-tagged

Cat. No. C12ORF5-30300TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human TIGAR with an N terminal His tag; 294 amino acids with the tag, predicted mwt: 32.6 kDa.
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.
Conjugation	HIS
Molecular Weight	32.600kDa inclusive of tags
Form	Liquid
Purity	by SDS-PAGE

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Storage buffer	Preservative: None Constituents: 10% Glycerol, 0.2M Sodium chloride, 20mM Tris HCl, 2mM DTT, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMGSHMARFALTVVRHGETRFNKEKIIQGQGVDEPL SETGFKQAAAAGIFLNNVKFTHAFSSDLMRKQTMHGILERSKFCKDMTVKYDSRLR ERKYGVVEGKALSELRAMAKAAREECPVFTPPGGETLDQVKMRGIDFFEFCLQLILK EADQKEQFSQGPSNCLETSLAEIFPLGKNHSSKVNSDSGIPGLAASVLVSHGAYM RSLFDYFLTDLKCSLPATLSRSELMSVTPNTGMSLFIINFEEGREVKPTVQCICMNLQ DHLNGLTETR
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

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MIM	610775
Uniprot ID	Q9NQ88
Chromosome Location	12p13.32
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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