

Recombinant Human C12orf5 Protein, TAT-tagged

Cat. No. C12orf5-508H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human C12orf5 (Q9NQ88) full-length recombinant protein C-terminal fused to TAT peptide (GGGYGRKKRRQRRR) expressed in Escherichia coli.
Species	Human
Source	E.coli
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.
Form	Lyophilized from sterile 10 mM Sodium Phosphate, pH 7.5
Molecular Mass	31.6 kDa
AA Sequence	ARFALTVVRHGETRFNKEKIIQGQGVDEPLSETGFKQAAAAGIFLNNVKFTHAFSSDL MRTKQTMHGILERSKFCKDMTVKYDSRLRERKYGVVEGKALSELRAMAKAAREEC PVFTPPGGETLDQVKMRGIDFFEFLCQLILKEADQKEQFSQGPSNCLETSLAEIFPL GKNHSSKVNDSGIPGLAASVLVSHGAYMRSLFDYFLTDLKCSLPATLSRSELMVS TPNTGMSLFIINFEEGREVKPTVQCICMNLQDHLNGLTETRGGGYGRKKRRQRRR

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Purity	95%
Usage	Activity assay SDS-PAGE. The optimal working dilution should be determined by the end user.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	Lyophilized from sterile 10 mM Sodium Phosphate, pH 7.5

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; transactivated by NS3TP2 protein; TP53-induced glycolysis and apoptosis regulator;
Gene ID	57103
mRNA Refseq	NM_020375
Protein Refseq	NP_065108
MIM	610775
UniProt ID	Q9NQ88

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