

**TECHNICAL DATA SHEET**

**Recombinant Human Tigar-TAT (Carrier-Free)**

Catalog Number: 21-9110

**RPx-Pro™ Recombinant Protein**  
**PRODUCT INFORMATION**

**CONTENTS**

Recombinant Human Tigar-TAT (Carrier-Free)

**DESCRIPTION**

TIGAR is a p53-inducible enzyme that catalyzes the hydrolysis of fructose-2-6 bisphosphate (F-2-6-BP) to fructose-6-phosphate and inorganic phosphate. F-2-6-BP is a powerful activator of 6-phosphofructose-1 kinase, the rate limiting enzyme of glycolysis.

**MOLECULAR MASS**

Recombinant Human TIGAR-TAT expressed in E. coli is a 31.6 kDa protein containing 283 amino acid residues, including the 269 residues of full-length TIGAR fused to a 14-residue C-terminal peptide containing the TAT transduction domain (GGGYGRKKRRQRRR).

**AMINO ACID SEQUENCE**

ARFALTVVRH GETRFNKEKI IQGQGVDEPL SETGFKQAAA AGIFLNNVKF THAFSSDLMR TKQTMHGILE RSKFCKDMTV KYDSRLRERK YGVVEGKALS ELRAMAKAAR EECPVFTPPG GETLDQVKMR GIDFFEFLCQ LILKEADQKE QFSQGSPSNC LETSLAEIFP LGKNHSSKVN SDSGIPGLAA SVLVVSHGAY MRSFLDYFLT DLKCSLPATL SRSELSMVTP NTGMSLFIIN FEEGREVKPT VQCICMNLQD HLNGLTETRG GGYGRKKRRQ RRR

**SOURCE**

E. coli

**APPLICATIONS**

Bioassay

**PURITY**

95 %

**STORAGE**

-20°C

**PROTEIN CONTENT**

Content Verified by UV Spectroscopy and/or SDS-PAGE gel.

**ENDOTOXIN LEVEL**

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

**AUTHENTICITY**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**CROSS REACTIVITY**

N/A

**BIOACTIVITY**

Pretreatment with TIGAR-TAT for 4 hrs, using a concentration range 0.1-5.0 ug/ml, protects U2OS cells from apoptosis induced by hydrogen peroxide.

**RESEARCH AREAS**

Proliferation, Apoptosis, Cancer

**RECONSTITUTION**

See Certificate of Analysis (COA) for lot specific reconstitution information.

**REFERENCES**

Jiang LB, Cao L, Ma YQ, Chen Q, Liang Y, Yuan FL, Li XL, Dong J, Chen N. Osteoarthritis Cartilage. 2017 Oct 20. pii: S1063-4584(17)31251-7. doi: 10.1016/j.joca.2017.10.007. Singh A, Sen E. Exp Cell Res. 2017 Nov 15;360(2):365-374. doi: 10.1016/j.yexcr.2017.09.028.

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