

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 SRSELMSTVP NTGMSLFIIN FEEGREVKPT VQCICMNLQD HLNGLTETRG GGYGRKKRRQ RRR

SOURCE

HEK293 cells

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

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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