

TECHNICAL DATA SHEET

Recombinant Human Tigar (Carrier-Free)

Catalog Number: 21-9215

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human Tigar (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. By lowering the intracellular level of F-2-6-BP, TIGAR expression leads to increased glucose processing via the pentose phosphate pathway, the major cellular source for NADPH.

MOLECULAR MASS

Recombinant Human TIGAR expressed in E. coli is a 29.9 kDa protein containing 269 amino acid residues.

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 HLNGLTETR

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

Data not available at this time.

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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