Tigar Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: TP53-induced glycolysis and apoptosis regulator (TIGAR)

Cat. No.:

RBG10317005	(5 µg)
RBG10317025	(25 µg)
RBG10317100	(100 µg)

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

Research topic

Apoptosis, Oncology

Amino Acid Sequence

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ARFALTVVRH GETRFNKEKI IQGQGVDEPL SETGFKQAAA AGIFLNNVKF THAFSSDLMR TKQTMHGILE RSKFCKDMTV
KYDSRLRERK YGVVEGKALS ELRAMAKAAR EECPVFTPPG GETLDQVKMR GIDFFEFLCQ LILKEADQKE QFSQGSPSNC
LETSLAEIFP LGKNHSSKVN SDSGIPGLAA SVLVVSHGAY MRSLFDYFLT DLKCSLPATL SRSELMSVTP NTGMSLFIIN
FEEGREVKPT VQCICMNLQD HLNGLTETR
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Source

E. coli

Purity

95%

Biological Activity

Data not available.

Endotoxin

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

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.5-1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

-20°C

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