

TRAP1 Protein, Human, Recombinant (GST)

General Information

Synonyms:	Heat shock protein 75 kDa, mitochondrial;mitochondrial;TNFR-associated protein 1;Tumor necrosis factor type 1 receptor-associated protein (TRAP-1);HSP 75;Heat shock protein family C member 5;HSP75;TRAP1;HSPC5
Protein Construction:	60-308 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q12931
Molecular Weight:	54.5 kDa (predicted)
AA Sequence:	STQTAEDKEEPLHSIISSTESVQGSTSKHEFQAETKLLDIVARSLYSEKEVFIRELISNASDALEKLRHKLVS DGLALPEMEIHLQTNAEKGITITQDTGIGMTQEELVSNLGTIARSGSKAFLDALQNQAEASSKIIGQFGVGFYSAF MVADRVVEVYSRSAAPGSLGYQWLSDGSGVFEIAEASGVRTGKIIHKLSDCKEFSSEARVRDVVTKYSNFV SFP PLYLNGRRMNTLQAIWMMDPKDVRE

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Chaperone that expresses an ATPase activity. Involved in maintaining mitochondrial function and polarization, downstream of PINK1 and mitochondrial complex I. Is a negative regulator of mitochondrial respiration able to

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modulate the balance between oxidative phosphorylation and aerobic glycolysis. The impact of TRAP1 on mitochondrial respiration is probably mediated by modulation of mitochondrial SRC and inhibition of SDHA.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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