

BOLA1 Protein, Human (His)

Cat. No.:	HY-P75596
Synonyms:	BolA-like protein 1; hBolA; BOLA1; CGI-143
Species:	Human
Source:	E. coli
Accession:	Q9Y3E2 (M1-P137)
Gene ID:	51027
Molecular Weight:	Approximately 10 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	BOLA1 Protein functions as a crucial factor in the assembly of mitochondrial iron-sulfur (Fe-S) clusters, aiding in the insertion of these clusters into specific mitochondrial proteins. It likely collaborates with the monothiol glutaredoxin GLRX5 in this process, emphasizing its role in mitochondrial Fe-S cluster biogenesis. Additionally, BOLA1 may contribute to cellular defense against oxidative stress. Its interaction with GLRX5 further underscores its involvement in intricate molecular mechanisms, highlighting potential connections between mitochondrial iron homeostasis and cellular responses to oxidative challenges.
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Caution: Product has not been fully validated for medical applications. For research use only.

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