

DNAJC30 Protein, Human (His)

Cat. No.:	HY-P76873
Synonyms:	DnaJ homolog subfamily C member 30; WBSR18
Species:	Human
Source:	E. coli
Accession:	Q96LL9 (S39-G124)
Gene ID:	84277
Molecular Weight:	Approximately 14 kDa

PROPERTIES

AA Sequence	S Q G D C S Y S R T A L Y D L L G V P S T A T Q A Q I K A A Y Y R Q C F L Y H P D R N S G S A E A A E R F T R I S Q A Y V V L G S A T L R R K Y D R G L L S D E D L R G P G
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	DNAJC30, a mitochondrial protein enriched in neurons, assumes a crucial role as a regulator of mitochondrial respiration. This protein associates with the ATP synthase complex, playing a facilitative role in ATP synthesis. Additionally, it acts as a potential chaperone involved in the turnover of the subunits of mitochondrial complex I N-module, contributing to the degradation of N-module subunits damaged by oxidative stress and thereby enhancing the functional efficiency of complex I. Notably, DNAJC30's interaction with MT-ATP6 and ATP5MC2, both direct, underscores its involvement in these mitochondrial processes, shedding light on its significance in maintaining mitochondrial function and cellular homeostasis.
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Caution: Product has not been fully validated for medical applications. For research use only.

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