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## Product Data Sheet

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Product Name: DNAJC19 Human  
 Cat. No.: GP25070  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Mitochondrial import inner membrane translocase subunit TIM14; Dnaj homolog subfamily C member 19; DNAJC19; TIM14; TIMM14; Pam18.		
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMGRY VLQAMKHMEP QVKQVFQSLP KSAFSGGYR GGFEPKMTKR EAALILGVSP TANKGKIRDA HRRIMLLNHP DKGGSPIYIAA KINEAKDLLE GQAKK.		
Formulation	The DNAJC19 solution (1 mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 10% glycerol, 2mM DTT and 0.1M NaCl.		

### Introduction

DNAJC19 is part of a complex involved in the ATP-dependent transport of transit peptide-containing proteins from the inner cell membrane to the mitochondrial matrix. DNAJC19 is a single-pass membrane protein which contains a J domain and is localized to the inner membrane of the mitochondrion. Expressed ubiquitously, DNAJC19 acts as a component of the mitochondrial DNAJC19 complex that is responsible for the ATP-dependent translocation of select proteins from the inner mitochondrial membrane to the mitochondrial matrix. Defects in the DNAJC19 gene are the cause of 3-methylglutaconic aciduria type 5 (MGA5), otherwise known as dilated cardiomyopathy with ataxia (DCMA).

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

DNAJC19 Human Recombinant fused with a37 amino acid His tag at N-terminus

**Caution: Product has not been fully validated for medical applications. For research use only.**

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produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 135 amino acids (19-116 a.a.) and having a molecular mass of 15.1kDa. The DNAJC19 is purified by proprietary chromatographic techniques.

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