
Product Data Sheet

Product Name: GRPEL1 Human
 Cat. No.: GP23600
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	HMGE; GrpE-like protein cochaperone; GREPEL1; FLJ25609.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MCTATKQKNS GQNLEEDMGQ SEQKADPPAT EKTLLLEEKVK LEEQLKETVE KYKRALADTE NLRQRSQKLV EEAKLYGIQA FCKDLLEVAD VLEKATQCVP KEEIKDDNPH LKNLYEGLVM TEVQIQKVFT KHGLLKLNPV GAKFDPYEHE ALFHTPVEGK EPGTVALVSK VGYKLHGRTL RPALVGVVKE A		
Formulation	The GRPEL1 protein solution (1mg/1ml) is formulated in 20mM Tris-HCl buffer (pH8.0), 0.2M NaCl, 1mM DTT and 10% glycerol.		

Introduction

GRPEL1 is a vital component of the PAM complex, a complex necessary for the translocation of transit peptide-containing proteins from the inner membrane into the mitochondrial matrix in an ATP-dependent manner. GRPEL1 protein controls the nucleotide-dependent binding of mitochondrial HSP70 to substrate proteins.

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). Please avoid freeze thaw cycles.

Background

GRPEL1 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 211 amino acids (28-217a.a.) and having a molecular mass of 23.6kDa. GRPEL1 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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

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