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## Product Data Sheet

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Product Name: MRRF Human  
 Cat. No.: GP23951  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	MRFF; MTRRF; RRF; Ribosome-recycling factor; mitochondrial; Ribosome-releasing factor; mitochondrial.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MATKKAKAKG KGQSQTRVNI NAALVEDIIN LEEVNEEMKS VIEALKDNFN KTLNIRTSPG SLDKIAVVTA DGKLALNQIS QISMKSPQLI LVNMAFPEC TAAAIKAIRE SGMNLNPEVE GTLIRVPIPQ VTREHREMLV KLAQNTNKA KDSLRLKVRTN SMNKLKSKD TVSEDTIRLI EKQISMADD TVAELDRHLA VKTKELLG.		
Formulation	MRRF protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer, (pH 8.0), 0.2M NaCl, 30% glycerol and 2mM DTT.		

### Introduction

Mitochondrial Ribosome Recycling Factor (MRRF) is a member of the RRF family. MRRF attaches to the large ribosomal subunit in the cleft which has a peptidyl transferase center. MRRF controls the release of ribosome from messenger RNA at the termination of protein biosynthesis. Also, it may intensify the efficacy of translation by recycling ribosome from one round of translation to another.

### 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

MRRF Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 228 amino acids (56-262 a.a.) and having a molecular mass of 25.1kDa. MRRF is fused to a 21 amino acid His-tag at N-terminus & purified by

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

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proprietary chromatographic techniques.

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