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**Product Data Sheet**


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Product Name: RANGRF Human  
 Cat. No.: GP24332  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Ran guanine nucleotide release factor; RanGNRF; Ran-binding protein MOG1; RANGRF; MOG1; HSPC165; HSPC236; MDS5.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSHEPTRD CPLFGGAFSA ILPMGAIDVS DLRPVPDNQE VFCHPVTDQS LIVELLELQA HVRGEEAARY HFEDVGGVQG ARAVHVESVQ PLSLENLALR GRCQEAWVLS GKQQIAKENQ QVAKDVTLHQ ALLRLPQYQT DLLLTFNQPP PDNRSSLGPE NLSPAPWSLG DFEQLVTSLT LHDPNIFGPQ.		
Formulation	RANGRF protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 10% glycerol, 0.15M NaCl and 1mM DTT.		

**Introduction**

RANGRF is a protein which acts as a guanine nucleotide release factor in mouse and regulates the expression and function of the Nav1.5 cardiac sodium channel in human. RANGRF also controls the intracellular trafficking of RAN. In cardiac cells, the RANGRF appears to regulate the cell surface localization of SCN5A.

**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**

RANGRF Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 210 amino acids (1-186 a.a) and having a molecular mass of 23kDa. RANGRF is fused to a 24 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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