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# Recombinant human RANGRF protein

Catalog Number: ATGP1620

#### **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

1-186aa

#### **UniProt No.**

O9HD47

#### **NCBI Accession No.**

NP 057576

### **Alternative Names**

RAN quanine nucleotide release factor, HSPC165, HSPC236, MOG1, RANGNRF

# **PRODUCT SPECIFICATION**

# **Molecular Weight**

23 kDa (210aa) confirmed by MALDI-TOF

## Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.15M NaCl, 1mM DTT

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

RANGRF is a protein that has been shown to function as a guanine nucleotide release factor in mouse and to regulate the expression and function of the Nav1. 5 cardiac sodium channel in human. Alternative splicing results in multiple transcript variants. Recombinant human RANGRF protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

#### **Amino acid Sequence**

< MGSSHHHHHH SSGLVPRGSH MGSH>MEPTRD CPLFGGAFSA ILPMGAIDVS DLRPVPDNQE VFCHPVTDQS



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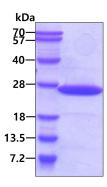
LIVELLELQA HVRGEAAARY HFEDVGGVQG ARAVHVESVQ PLSLENLALR GRCQEAWVLS GKQQIAKENQ QVAKDVTLHQ ALLRLPQYQT DLLLTFNQPP PDNRSSLGPE NLSPAPWSLG DFEQLVTSLT LHDPNIFGPQ

# **General References**

Olesen, M.S., et al. (2011) Can J Cardiol 27 (4), 523 Kattygnarath, D., et al. (2011) Circ Cardiovasc Genet 4 (3), 261-268.

# **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

