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# Recombinant human SNRPG protein

Catalog Number: ATGP1011

# **PRODUCT INFORMATION**

### **Expression system**

E.coli

#### **Domain**

1-76aa

#### **UniProt No.**

P62308

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

NP 003087

#### **Alternative Names**

Small nuclear ribonucleoprotein polypeptide G, Sm-G, SMG

# PRODUCT SPECIFICATION

### **Molecular Weight**

10.6 kDa (96aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 50% glycerol, 0.1M NaCl

#### **Purity**

> 95% 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**

Small nuclear ribonucleoprotein polypeptide G, also known as SNRPG, belongs to the snRNP Sm proteins family. There are at least seven isoforms, B/B, E, F, G, D1, D2, and D3. This class of common proteins plays an essential role in the biogenesis of the snRNPs. The genes encoding human Sm G map to chromosomes 2. In addition, these proteins represent the major targets for the so-called anti-Sm auto-antibodies which are diagnostic for systemic lupus erythematosus (SLE). One class of these autoantibodies reacts specifically with native Sm E-F-G complexes. Recombinant human SNRPG protein, fused to His-tag at N-terminus, was expressed in E. coli and



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purified by using conventional chromatography techniques.

# **Amino acid Sequence**

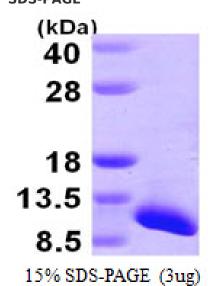
MGSSHHHHHH SSGLVPRGSH MSKAHPPELK KFMDKKLSLK LNGGRHVQGI LRGFDPFMNLVIDECVEMAT SGQQNNIGMV VIRGNSIIML EALERV

#### **General References**

Hermann H., et al. (1995) EMBO J. 14(9):2076-88. Heinrichs V., et al. (1992) J Mol Biol. 227(1):15-28.

# **DATA**

# SDS-PAGE



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

