

**SNRPG, 1-76aa, Human, His tag, E.coli**

**Cat.NO.: TP03992**

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3th Edition

**Synonyms:**Small nuclear ribonucleoprotein polypeptide G, Sm-G, SMG

**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 purified by using conventional chromatography techniques.

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

**Molecular Weight:**10.6 kDa (96aa), confirmed by MALDI-TOF

**Sequences:**

MGSSHHHHHSSGLVPRGSHMSKAHPPELKKFMDKKLSLKLNGGRHVQGILRGFDPFMNLVIDECVEMATSGQQ  
NNIGMVVIRGNSIIMLEALERV

**Purity:**> 95% by HPLC

**Concentration:**1 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.