

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

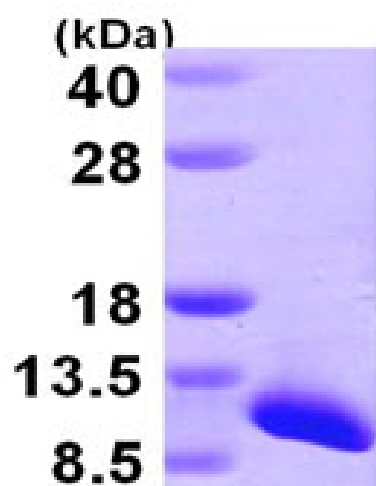
MGSSHHHHHHH SSGLVPRGSH MSKAHPPELK KFMDKKLSLK LNGGRHVQGI LRGFDPFMNLVIDECVEMAT SGQQNNIGMV
VIRGNSIIML EALERV

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



15% SDS-PAGE (3ug)

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