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## Product Data Sheet

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Product Name: SNURF Human  
 Cat. No.: GP24651  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	SNRPN Upstream Reading Frame Protein.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMERARDR LHLRRTEQH VPEVEVQVKR RRTASLSNQE CQLYPRRSQQ QQVPVDFQA ELRQAFLAET PRGG		
Formulation	The SNURF solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 1mM DTT and 40% glycerol.		

### Introduction

SNURF is an extremely basic protein restricted to the nucleus. The evolutionarily reserved open reading frame is located on a bicistronic transcript which has a downstream ORF encoding the small nuclear ribonucleoprotein polypeptide N. The first three exons of the transcript are exploited by the upstream coding region which is known as an imprinting center. The full-length nature of these transcripts is yet to be determined but multiple transcription initiation sites have been identified and large scale alternative splicing takes place in the 5' untranslated region. An alternate exon which substitutes for exon 4 and leads to a truncated, monocistronic transcript was identified. Deletion or alternative splicing produced by a translocation event in the 5' UTR or coding region of this gene results in Prader-Willi syndrome or Angelman syndrome because of parental imprint switch failure.

### 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

SNURF Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide

**Caution: Product has not been fully validated for medical applications. For research use only.**

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chain containing 94 amino acids (1-71) and having a molecular mass of 10.8 kDa. SNURF is fused to a 23 amino acid His-tag at N-terminus.

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