
Product Data Sheet

Product Name: C11ORF31 Human
 Cat. No.: GP22917
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Chromosome 11 Open Reading Frame 31; Selenoprotein H; SELH; C17orf10; C11orf31.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMAPRGRK RKAEEAVVAV AEKREKLANG GEGMEEATVV IEHCTSCR VY GRNAAALSQA LRLEAPELPV KVNPTKPRRG SFEVTL LRPD GSSAELWTGI KKGPPRKLKF PEPQEVVEEL KKYLS.		
Formulation	The C11ORF31 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT.		

Introduction

C11ORF31 (Chromosome 11 Open Reading Frame 31) is a selenoprotein, which contains a selenocysteine (Sec) residue at its active site. The selenocysteine is encoded by the UGA codon which ordinarily signals translation termination. The 3' UTR of selenoprotein genes have a mutual stem-loop structure, the sec insertion sequence (SECIS), which is essential for the recognition of UGA as a Sec codon rather than as a stop signal. The exact function of the C11ORF31 gene is not known, however, selenoproteins are assumed to be responsible for most biomedical effects of dietary selenium. C11ORF31 is involved in a redox-related process.

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

C11ORF31 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 145 amino acids (1-122) and having a molecular mass of

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15.8 kDa.C11ORF31 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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