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## Product Data Sheet

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Product Name: SEP15 Human  
 Cat. No.: GP24522  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	15 KDa Selenoprotein; SEP15.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSVSAFGAE FSSEACRELG FSSNLLCSCC DLLGQFNLLQ LDPDCRGCCQEAAQFETKKL YAGAILEVCG CKLGRFPQVQ AFVRS DKPKL FRGLQIKYVR GSDPVLKLLD DNGNIAEELSILKWNTDSVE EFLSEKLERI		
Formulation	SEP15 protein solution (0.5mg/ml) containing 20mMTris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

### Introduction

15 KDa Selenoprotein (SEP15) is a protein-coding gene which contains a selenocysteine (Sec) residue at its active site. The selenocysteine is encoded by the UGA codon that usually signals translation termination. The 3' UTR of selenoprotein genes have a conventional stem-loop structure, the sec insertion sequence (SECIS), which is necessary for the recognition of UGA as a Sec codon rather than as a stop signal. Studies in mouse propose that this selenoprotein may have redox function and may be implicated in the quality control of protein folding. This gene is localized on chromosome 1p31, a genetic locus usually mutated or deleted in human cancers. Diseases associated with SEP15 include lung cancer susceptibility, and chronic lymphocytic leukemia.

### 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

SEP15 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 160 amino acids (29-165 a.a) and having a molecular mass of 17.7kDa.

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