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## Product Data Sheet

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Product Name: USE1 Human  
 Cat. No.: GP24961  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Vesicle transport protein USE1; Putative MAPK-activating protein PM26; USE1-like protein; p31; USE1L; MDS032; Q-SNARE; SLT1; SNARE-Like Tail-Anchored Protein 1 Homolog; Protein P31.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMAASRLE LNLVRLLSRC EAMAAEKRDP DEWRLEKYVG ALEDMLQALKVHASKPASEV INEYSWKVDF LKGM LQAEKL TSSSEKALAN QFLAPGRVPT TARERVPATK TVHLQSRARYTSEMRSELLG TDSAEPEMDV RKRTGVAGSQ PVSEKQSAAE LDLVLQRHQN LQEKLAEEML GLARSLKTNT LAAQSVIKKD NQTLSHSLKMADQNLEK LKT ESERLEQHTQ KSVN		
Formulation	USE1 protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 10% glycerol, 0.1M NaCl and 1mM DTT.		

### Introduction

USE1 belongs to the USE1 family, this protein is a vesicle transport protein. USE1 is a component of a SNARE complex consisting of STX18, USE1L, BNIP1/SEC20L and SEC22B. In addition, USE1 interacts directly with STX18. SNARE may be involved in targeting and fusion of Golgi-derived retrograde transport vesicles with the ER. Diseases associated with USE1 comprise dysentery and hemolytic-uremic syndrome. Among its related super-pathways are Nicotine Pathway (Dopaminergic Neuron) and Pharmacodynamics. GO annotations related to this gene include protein binding.

### 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.

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

USE1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 254 amino acids (1-231 a.a) and having a molecular mass of 28.3kDa.

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