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## Product Data Sheet

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Product Name: Ostreolysin

Cat. No.: GP24112

Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Amino Acid Sequence	The N-terminal amino sequence is Ala-Tyr-Ala-Gln-Trp-Val.		
Solubility	It is recommended to reconstitute the lyophilized Ostreolysin in sterile 0.4% NaHCO <sub>3</sub> , not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The Ostreolysin protein was lyophilized from a concentrated (1mg/ml) solution with 0.02% NaHCO <sub>3</sub> .		

### Introduction

Ostreolysin is extracted from *Pleurotus ostreatus* (oyster mushroom). It is a pore forming protein, which contains a lytic part to both cholesterol and sphingomyelin containing membranes. Because of their cholesterol content and the appearance of ostreolysin in the detergent resistant membranes, ostreolysin is cytotoxic towards the ovary cells of Chinese hamster. It seems that Ostreolysin spots a rich lipid cholesterol phase, presumably the liquid ordered phase.

### Biological Activity

Ostreolysin has potent anti-carcinogenic activity in several colon cancer cell lines.

### Stability

Lyophilized *Pleurotus Ostreatus* Ostreolysin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon C between 2-7 days and for future use reconstituted Ostreolysin should be stored at 4°C below -18°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid 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

Pleurotus Ostreatus Ostreolysin Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 137 amino acids and having a molecular mass of 15 kDa. The Ostreolysin is purified by proprietary chromatographic techniques.

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