

Streptolysin O (≥ 1000000 units/mg)

Cat. No.:	HY-135416A		
CAS No.:	98072-47-0		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		Hemolysins O, Streptococcus group A
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

BIOLOGICAL ACTIVITY

Description

Streptolysin O (≥ 1000000 units/mg) is a ≥ 1000000 units/mg Streptolysin O (HY-135416). Streptolysin O, a group A streptococcal toxin, is a well-characterized oxygen-labile prototype of a cholesterol-binding bacterial exotoxin. Streptolysin O causes both lysis of cells and cardiotoxicity. Streptolysin O is widely used for the controlled permeabilization of cell membranes. Streptolysin O exists in two forms, a reduced active state and an oxidized reversibly inactive state^{[1][2][3][4]}.

REFERENCES

- [1]. Sierig G, et al. Cytotoxic effects of streptolysin o and streptolysin s enhance the virulence of poorlyencapsulated group a streptococci. Infect Immun. 2003 Jan;71(1):446-55.
- [2]. Van Epps DE, et al. Streptolysin O II. Relationship of Sulfhydryl Groups to Activity. Infect Immun. 1971 May;3(5):648-52.
- [3]. Uchiyama S, et al. Streptolysin O Rapidly Impairs Neutrophil Oxidative Burst and Antibacterial Responses to Group A Streptococcus. Front Immunol. 2015 Nov 16;6:581.
- [4]. Yamamoto I, et al. Mutational and comparative analysis of streptolysin O, an oxygen-labile streptococcal hemolysin. Biosci Biotechnol Biochem. 2001 Dec;65(12):2682-9.

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

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