

Native Streptococcus pyogenes Streptolysin O

Cat. No. NATE-0671

Lot. No. (See product label)

Introduction

Description Streptolysin O possesses a single polypeptide chain with a molecular weight of f62

kDa. Streptolysin O binds to membrane cholesterol and oligomerizes to create a ring structure that consists of 45 to 50 units. The ring structure inserts into the membrane to make a large pore (25 to 30 nm), which DNA, RNA, peptides and proteins may pass. It is thiol-activated. It is inhibited by allicin, an active

component of garlic.

Applications Permeabilizes membranes to permit cellular uptake of large or charged molecules.

Streptolysin O is a toxin secreted by Streptococcus pyogenes and is a prototype

member of poreforming bacterial cytolysins. It is used permeabilize cell

membranes to permit cellular uptake of large or charged molecules. It is used to study macromolecule delivery. It is a potential anticancer agent and is used to

study suicide cancer gene therapy.

Synonyms Streptolysin O; 98072-47-0; SLO

Product Information

Source Streptococcus pyogenes

Form lyophilized powder

CAS No. 98072-47-0

Molecular Weight 69 kDa

Composition Protein, ~3% Lowry

Unit Definition One unit will cause 50% lysis of 2% red blood cell suspensions in phosphate

buffered saline, pH 7.4, after incubation at 37°C for 30 min.

Storage and Shipping Information

Storage 2-8°C

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