

Recombinant Streptolysin O

#R00592

Size: 500 µg

Stability & Storage

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
- 12 months from date of receipt, -20 to -70 °C as supplied.
 - 1 month, 2 to 8 °C under sterile conditions after reconstitution.
 - 3 months, -20 to -70 °C under sterile conditions after reconstitution.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

Sulfhydryl-activated toxin that causes cytolysis by forming pores in cholesterol containing host membranes. After binding to target membranes, the protein undergoes a major conformation change, leading to its insertion in the host membrane and formation of an oligomeric pore complex. Cholesterol may be required for binding to host membranes, membrane insertion and pore formation. Can be reversibly inactivated by oxidation.

AA Sequence

NKQNTASTETTTTNEQPKPESELTTTEKAGQKTDDM
LNSNDMIKLAPKEMPLESAEKEEKKSEDKKKSEEDHT
EEINDKIYSLNYNELEVLAKNGETIENFVPKEGVKKAD
KFIVIERKKKNINTTPVDISIIDSVTDRTPAALQLANKG
FTENKPDVVTKRNPQKIHIDLPGMGDKATVEVNDPT
YANVSTaidnlvnqwhdnysggntlpARTQYTESMV
YSKSQIEAALNVNSKILDGTLGIDFKSISKGEKKVMIAA

YKQIFYTVSANLPNNPADVFDKSVTFKELQRKGVSN
EAPPLFVSNVAYGRTVFVKLETSSKSNDEAAAFSAALK
GTDVKTNGKYSDILENSSFTAVVLGGDAAEHNKVVT
KDFDVIRNVIKDNATFSRKNPAYPISYTSVFLKNNKIAGV
NNRTEYVETTSTEYTSKGKINLSHQGAYVAQYEILWDEI
NYDDKGKEVITKRRWDNNWYSKTSFSTVIPLGANS
RNIRIMARECTGLAWEWWRKVIDERDVKLSKEINVNI
SGSTLSPYGSITYK

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Product Specification

Accession	P0DF97
Source	Escherichia coli.
Molecular Weight	Approximately 60.1 kDa, a single non-glycosylated polypeptide chain containing 538 amino acids.
Purity	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity	Bioassay data are not available.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
Endotoxin	Less than 0.1 EU/µg of rStreptolysin O as determined by LAL method.