
Product Data Sheet

Product Name: Shiga Like Toxin 1
Cat. No.: GP25161
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Formulation	Phosphate buffered saline and 50mM arginine, pH 7.4.		

Introduction

Shiga-like toxin (verotoxin) is a toxin produced by some strains of Escherichia coli. Shiga-like toxin is named for its similarity to the AB5-type Shiga toxin produced by the bacteria Shigella dysenteriae. There are two known types-SLT1 and SLT2. The Shiga-like toxin is linked with hemolytic-uremic syndrome. Shiga-like toxin requires highly specific receptors on the cells' surface in order to attach and enter the cell. Species such as cattle, swine, and deer which do not carry these receptors may harbor toxigenic bacteria without any ill effect, dropping them in their feces, from where they may be distributed to humans. Shiga Like Toxin-1 Subunit B has nontoxic action, it is the functional region which binds to the receptor. The Shiga Like Toxin-1 Subunit B can be useful in vaccine study, antibody test and other functional research.

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.

Background

Recombinant Shiga Like Toxin-1 Subunit B from E.Coli O157:H7 produced in E.coli containing amino acids 2-90 of the Shiga Like Toxin-1 Subunit B. The Shiga Like Toxin 1 protein is fused to a 6xHis tag at its N-terminus and purified by proprietary chromatographic technique.

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

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