

## Shiga toxin 2B Protein, E. coli (His)

Cat. No.:	HY-P73650
Synonyms:	Shiga toxin 2 B subunit; Stx2 holotoxin B subunit; stx2B; stx2dB
Species:	E.coli
Source:	E. coli
Accession:	Q93EY4 (M1-D89)
Gene ID:	/
Molecular Weight:	Approximately 16 kDa

### PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	The Shiga toxin 2B protein, specifically its B subunit, assumes the critical role of binding the holotoxin to specific receptors on the surface of target cells. Notably, this binding interaction is directed towards receptors such as globotriaosylceramide (Gb3), particularly located on human intestinal microvilli. The B subunit's capability to recognize and engage with these specific receptors underscores its pivotal function in facilitating the initial stages of the holotoxin's interaction with the target cell surface, setting the stage for subsequent cellular responses and internalization processes.
------------	---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA