



## Certificate of Origin

Catalog Number	Product Name	Lot Number	Animal-Free (No animal or human-origin components)
200-57	Mouse EB13 subunit (IL-27 / IL-35)	0309-200-57	No

**Documentation Date:** June 15, 2017

**Harmonizing Code:** 3504001000

**Country of Origin:** USA

**Manufacture:**

Shenandoah Biotechnology  
101 Camars Drive  
Warwick , PA 18974  
USA

This recombinant protein was manufactured at Shenandoah Biotechnology in Warwick, Pennsylvania, USA. It was expressed in *E.coli*, grown in standard media, and purified.

This product is supplied carrier free. Materials of animal and/or human origin may have been used in the manufacture of this recombinant protein and no viral testing was done.

**Type of Manufacture (ie. chemical synthesis, fermentation, biological extraction/purification):**

This product is a recombinant protein produced by fermentation in standard media and purification protocols.

**Sub-Type (If chemical, organic or inorganic? If fermentation, microbial or plant?):** Microbial expression

**Always non-animal source:** No

**Is there any comingling with other animal materials in manufacturing process:** Yes

**Viral Testing:** No

**Carrier Protein:** No

**Genetically Modified Organism:** This product is derived from a genetically modified organism, in which human, mouse, or rat genes have been added to *E.coli*, with the purpose of producing genetically engineered research products.

**Expiration Date:**

12 months from date of receipt when stored at -20°C to -80°C as supplied.

1 month when stored at 4°C after reconstituting as directed.

3 months when stored at -20°C to -80°C after reconstituting as directed.

X *Olivia Schneider, PhD 7-11-17*

Olivia Schneider, PhD  
Chief Scientific Officer