

## Recombinant FMDV VP1 (type O) protein, Sumo & His

Catalog Number: bs-41028P

Concentration: >0.5 mg/ml

AA Seq: 726-935/2332

Predicted MW: 45

Detected MW: 45 kDa

Tags: Sumo & His

Activity: Not tested

Endotoxin: Not analyzed

Purity: >95% as determined by SDS-PAGE

Purification: AC

Form: Lyophilized or Liquid

Storage: 20mM Tris-HCl (pH7.5) with 8M Urea.

Stored at -70°C or -20°C. Avoid repeated freeze/thaw cycles.

**Background:** The foot-and-mouth disease virus (FMDV) is the pathogen that causes foot-and-mouth disease. It is a picornavirus, the prototypical member of the genus Aphthovirus. The synthesis of viral proteins include 2A 'cleavage' during translation. They include proteases that inhibit the synthesis of normal cell proteins, and other proteins that interact with different components of the host cell. The infected cell ends up producing large quantities of viral RNA and capsid proteins, which are assembled to form new viruses. After assembly, the host cell lyses (bursts) and releases the new viruses.

The foot-and-mouth disease virus occurs in seven major serotypes: O, A, C, SAT-1, SAT-2, SAT-3, and Asia-1. These serotypes show some regionality, and the O serotype is most common.

### VALIDATION IMAGES



The purity of the protein is greater than 90% as determined by reducing SDS-PAGE.