

Bioassayplus Inc.

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Certificate of Analysis

Important Note: Centrifuge before opening to ensure complete recovery of vial contents.

Catalog #: EBO-Z gp

Description: Ebola virus causes a severe hemorrhagic fever with 50-90% mortality. The EBOV glycoprotein is the only protein over the virion surface, it forms trimeric complex on virion surface, this trimeric complexes are the receptors for fusion and entry to host cell. Mucin like domain within EBOV glycoprotein contains multiple glycosylated amino acids, mucin like domain usually is the target recognized by its specific antibody. GP-mucin deficient in post-translational modification is comparable to the eukaryotic cell – expressed GP ectodomains in assay performance. New published article in Clinical vaccine and immunology 2014 showed that recombinant mucin like domain is a useful antigen to test specific antibodies from Ebola virus infected patients.

A mucin like domain containing 181 amino acids was derived from Zaire ebolavirus (strain Kikwit-95) gp mucin sequence, the expressed protein forms dimer, mimic its natural trimeric complex on virion surface with the molecular weight 38kDa. The protein was expressed and purified from *E. coli*, a 6 x His tag is attached to its C terminus.

Publication: Virology Journal, 2012, 9: 32

Source: *E. coli*

Format: Purified, Liquid

Purification: >95% pure (12% SDS-PAGE, Coomassie blue stain). Proprietary chromatographic technique

Concentration: 1.0mg/ml (Lot: 062018)

Buffer: Phosphate buffer with 25mM arginine

Preservative: 0.02% sodium azide

Applications: Immunoassay

Storage: Upon receipt, store at -20°C. Avoid multiple freeze/thaw cycles.

