

## 32-13610: HIV-2 gp36, 17kDa

### Alternative Name :

HIV-1 and HIV-2 appear to package their RNA differently. HIV-1 binds to any appropriate RNA whereas HIV-2 preferentially binds to mRNA which creates the Gag protein itself. This means that HIV-1 is better able to mutate. HIV-2 is transmitted in the same ways as HIV-1: Through exposure to bodily fluids such as blood, semen, tears and vaginal fluids. Immunodeficiency develops more slowly with HIV-2. HIV-2 is less infectious in the early stages of the virus than with HIV-1. The infectiousness of HIV-2 increases as the virus progresses. Major differences include reduced pathogenicity of HIV-2 relative to HIV-1, enhanced immune control of HIV-2 infection and often some degree of CD4-independence. Despite considerable sequence and phenotypic differences between HIV-1 and 2 envelopes, structurally they are quite similar. Both membrane-anchored proteins eventually form the 6-helix bundles from the N-terminal and C-terminal regions of the ectodomain, which is common to many viral and cellular fusion proteins and which seems to drive fusion. HIV-1 gp41 helical regions can form more stable 6-helix bundles than HIV-2 gp41 helical regions however HIV-2 fusion occurs at a lower threshold temperature (25Å°C), does not require Ca<sup>2+</sup> in the medium, is insensitive to treatment of target cells with cytochalasin B, and is not affected by target membrane glycosphingolipid composition.

### Description

Source: Escherichia Coli.

Sterile Filtered White lyophilized (freeze-dried) powder.

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Recombinant HIV-2 gp36 produced in E.coli is a non-glycosylated polypeptide chain having a molecular mass of 17kDa and fused to a His tag at N-terminus.

### Product Info

<b>Amount :</b>	100 µg / 0.5 mg
<b>Purification :</b>	Greater than 95.0% as determined by SDS-PAGE.
<b>Content :</b>	Lyophilized from 1mg/ml in 1xPBS, pH 7.4 and 0.3% SDS. It is recommended to reconstitute the lyophilized HIV-2 gp36 in sterile 18M-cmH <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions
<b>Storage condition :</b>	HIV-2 gp36 although stable at room temperature for 4 weeks, should be stored below -18°C. Please prevent freeze thaw cycles.