Active Recombinant HIV-2 gp36 protein

Cat. No. gp36-524 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant HIV-2 gp36 containing the full-length sequence of HIV-2 envelope immunodominant regions gp36 was expressed in E. coli.
Species	HIV2
Source	E.coli
Description	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 virushan 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 (25°C), does not require Ca2+ in the medium, is insensitive to treatment of target cells with cytochalasin B, and is not affected by target membrane glycosphingolipid

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	composition.
Form	50mM TRIS HCL & 8M urea, pH-8.4.
Bio-activity	Immunoreactive with all sera of HIV-2 infected individuals.
Molecular Mass	16kda
Purity	Greater than 95.0% as determined by HPLC analysis and SDS-PAGE.
Applications	HIV-2 gp36 antigen is suitable for ELISA and Western blots, excellent antigen for early detection of HIV seroconvertors with minimal specificity problems.
Stability	HIV-2 gp36 although stable at 4°C for 1 week, should be stored below -18°C.Please prevent freeze thaw cycles.

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