Active Recombinant HIV-2 gp36 protein, His-tagged

Cat. No. gp36-526 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant HIV-2 gp36 containing Ecto-domain of gp36 and fussed with His tag was expressed in Pichia pastoris.
Species	HIV2
Source	P.pastoris
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

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	composition.
Form	6M Urea, 0.02M Tris-HCl, 0.5M Sodium chloride, pH 7.0 to 8.0 at room temperature
Bio-activity	Reacts with HIV-2 positive human sera and monoclonal antibodies as determined by ELISA and Western blot
Molecular Mass	Major immunospecific band at 14 kDa; minor bands at 5, 16, 18, 28 and 42 kDa.
Applications	Suitable for use in ELISA and Western blot. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.High sensitivity in ELISA at ~ 1 ng/well
Notes	Centrifuge before opening to ensure complete recovery of vial contents.
Storage	Store at –70°C or below. Aliquot to avoid multiple freeze thaws.
Concentration	Lot specific

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA