Recombinant HIV HIV2gp32 protein, β-gal-tagged

Cat. No. HIV2gp32-196H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HIV-2 gp32 recombinant contains the full-length sequence of HIV-2 envelope immunodominant regions gp32. The protein is fused with b-galactosidase (114kDa) at N-terminus.
Species	HIV
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 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 (25°C), does not require Ca2+ in the medium, is insensitive to treatment of target cells with

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	cytochalasin B, and is not affected by target membrane glycosphingolipid composition.
Form	Sterile filtered colorless clear solution. The HIV-2 gp32 solution (1mg/ml) 0.01M Na2CO3, 0.01M Na3EDTA, 0.014 Mb-mercaptoethanol and 0.02% Sarcosyl.
Purity	Greater than 95.0% as determined by SDS-PAGE.
Applications	HIV-2 gp32 antigen is suitable for ELISA and Western blots, excellent antigen for early detection of HIV seroconvertors with minimal specificity problems.
Usage	The products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.
Stability	Protein should be stored at 4°C. Refrigerate Upon arrival. DO NOT FREEZE.
Specificity	Immunoreactive with all sera of HIV-2 infected individuals.
Shipping	Ice Packs

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