Recombinant HIV HIV2gp32 protein, β-gal-tagged

Cat. No. HIV2gp32-197H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HIV-2 gp32 Biotin Labeled recombinant contains the full-length sequence of HIV-2 envelope immunodominant regions gp32 having a Mw of 32kDa and fused to a beta-galactosidase 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

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

	cytochalasin B, and is not affected by target membrane glycosphingolipid composition.
Form	Sterile filtered colorless clear solution. 0.01M Na2CO3, 10mM EDTA, 14mM beta-ME and 0.02% Sarcosyl.
Molecular Mass	32kDa
Purity	Greater than 95.0% as determined by SDS-PAGE.
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	HIV-2 gp-32 although stable at room temperature for 3 weeks, should be stored at 4°C.
Shipping	Ice Packs

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