Recombinant HIV HIV1-2GP39 protein

Cat. No. HIV1-2GP39-194H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HIV-1,2 recombinant E.Coli derived recombinant 27kDa protein contains the C-terminus of gp120 and most of gp41. The protein is conjugated to a 23 amino acids synthetic peptide derived from gp39 of HIV-2.
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),

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	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 composition.
Form	Sterile filtered colorless clear solution. 100mM NaPO4, pH 6 and 0.05% SDS.
Molecular Mass	27kDa
Purity	Greater than 95.0% as determined by HPLC analysis and SDS-PAGE.
Applications	HIV-1,2 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	HIV-1,2 although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.
Specificity	Immunoreactive with all sera of HIV-1, HIV type O & HIV-2 infected individuals.
Shipping	Ice Packs

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