Product Data Sheet

Product Name:	HIV-2 gp36, 17kDa
Cat. No.:	GP25426
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	Shipped at Room temp.
Solubility	It is recommended to reconstitute the lyophilized HIV-2 gp36 in sterile 18M-cmH2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions		
Formulation	Lyophilized from 1mg/ml in 1xPBS, pH 7.4 and 0.3% SDS.		

Introduction

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 cytochalasin B, and is not affected by target membrane glycosphingolipid composition.

Stability

HIV-2 gp36 although stable at room temperature for 4 weeks, should be stored below -

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18°C . Please prevent freeze thaw cycles.

Background

Recombinant HIV-2 gp36 produced in E.coli is a non-glycosylated polypeptide chain having a molecular mass of 17kDa and fused to a His tag at N-terminus.

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