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## Product Data Sheet

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Product Name: HIV-2 gp32

Cat. No.: GP25422

Batch No.: 1

### Product Data

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|---------------------|---|--------------------|-------------------------|
| Purity              | >98%  | Source             | Escherichia Coli.       |
| Physical Appearance | solid   | Shipping Condition | Shipped with Ice Packs. |
| Formulation         | The HIV-2 gp32 solution (1mg/ml) 0.01M Na <sub>2</sub> CO <sub>3</sub> , 0.01M Na <sub>3</sub> EDTA, 0.014 Mb-mercaptoethanol and 0.02% Sarcosyl. |                    |                         |

### 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 Ca<sup>2+</sup> in the medium, is insensitive to treatment of target cells with cytochalasin B, and is not affected by target membrane glycosphingolipid composition.

### Stability

Protein should be stored at 4°C. Refrigerate Upon arrival. DO NOT FREEZE.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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HIV-2 gp32 recombinant- contains the full-length sequence of HIV-2 envelope immunodominant regions gp32. The protein is fused with b-galactosidase (114 kDa) at N-terminus.

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