9051 Mira Mesa Blvd, #910094
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HIV-1 TAT Cys22

HIV-1 TAT Cys22 Recombinant
VAG0341

Product Overview

Name	HIV-1 TAT Cys22

Description

HIV-1 TAT Cys22 Recombinant

Introduction

Human immunodeficiency virus type-1 (HIV-1) regulatory Tat protein plays an crucial part in viral replication and infectivity. Throughout acute infection, Tat protein is released extracellularly by infected cells and is taken up by neighboring cells where it transactivates viral replication and inhances virus infectivity. HIV-1 Tat activates transcription of HIV-1 viral genes by inducing phosphorylation of the C-terminal domain (CTD) of RNA polymerase II (RNAPII). Tat can also disturb cellular metabolism by inhibiting proliferation of antigen-specific T lymphocytes and by inducing cellular apoptosis. Tat-induced apoptosis of T-cells is attributed, in part, to the distortion of microtubules polymerization. LIS1 is a microtubule-associated protein that facilitates microtubule polymerization.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation

Lyophilized with 0.1% glycerol.

Stability

Lyophilized HIV-1 TAT Cys22 although stable at room temperature for 1 week, should be stored desiccated below -18°C. Upon reconstitution HIV-1 TAT Cys22 should be stored at 4°C between 2-7 days and for future use below -18°C. For long-term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 90.0% as determined by SDS-PAGE.

Solubility

It is recommended to reconstitute the lyophilized HIV-1 TAT Cys 22 in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Applications

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Recognized by anti-Tat (HIV-1) polyclonal antibody. Reacts with anti-Tat antibodies from human, monkey, rabbit and mouse serum.

Specificity

Immunoreactive with all sera of HIV-1 infected individuals.

Precautions

HIV-1 TAT Cys22 is for research use only and not for use in diagnostic or therapeutic procedures.