Recombinant HIV-I TAT Clade-C

Catalog No.	CSI15807A	**Quantity:**	2 µg
	CSI15807B		10 µg
	CSI15807C		100 µg

Description: Human immunodeficiency virus type-1 (HIV-1) regulatory Tat protein plays an essential role in viral replication and infectivity. In addition, during acute infection, Tat is released extra cellularly by infected cells and is taken up by neighboring cells where it transactivates viral replication and increases 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.
HIV-1 TAT Recombinant- produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 100 amino acids encoded by two exons and having chain having a MW = 21 kDa.

Source: *E. coli*

Molecular Weight: 21 kDa

Formulation: HIV-1 TAT was lyophilized with no additives.

Purity: Greater than 90.0% as determined by HPLC analysis and SDS-PAGE.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Specific Activity: Immunoreactive with all sera of HIV-1 infected individuals.

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

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

Storage & Stability: Lyophilized HIV-1 TAT although stable at room temperature for 1 week, should be stored desiccated below -18°C. Upon reconstitution HIV-1 TAT 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).

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