

## 32-5589: Recombinant HIV-1 TAT Clade-D

### Description

Source : Escherichia Coli. HIV-1 TAT Clade-D Recombinant produced in E.coli is a single, non-glycosylated, polypeptide chain having the Accession number: AY194029. Human immunodeficiency virus type-1 (HIV-1) regulatory Tat protein plays an essential role in viral replication (Jones KA, 1994) and infectivity (Arya SK, 1985; Fisher AG, 1986). In addition, during acute infection, Tat is released extracellularly by infected cells (Chang HC, 1997; Ensoli B, 1990) and is taken up by neighboring cells where it transactivates viral replication (Ensoli B, 1993) 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.

### Product Info

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|----------------------------|--|
| <b>Amount :</b>            | 10 µg  |
| <b>Purification :</b>      | Greater than 90.0% as determined by SDS-PAGE.  |
| <b>Content :</b>           | Lyophilized with 10% glycerol.   |
| <b>Storage condition :</b> | 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). Please prevent freeze-thaw cycles. |

### Application Note

It is recommended to reconstitute the lyophilized HIV-1 TAT in sterile 18MΩ·cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

