**HIV-1 TAT Clade-B**

**Human Immunodeficiency Virus 1 Trans-Acting Transcription factor recombinant, *E. coli***

<table>
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<tr>
<th>Cat. No.</th>
<th>Amount</th>
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<td>PR-1216</td>
<td>10 µg</td>
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*For in vitro use only!*

**Shipping:** shipped on blue ice

**Storage Conditions:** store at -20 °C

**Additional Storage Conditions:** avoid freeze/thaw cycles

**Shelf Life:** 12 months

**Molecular Weight:** 14 kDa

**Purity:** > 90 % (SDS-PAGE, HPLC)

**Form:** lyophilised (with 0.1% glycerol)

**Solubility:** It is recommended to reconstitute the lyophilised HIV-1 TAT in bidest H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

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

**Description:** Recombinant HIV-1 TAT produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 86 aminoacids encoded by two exons and having chain having a molecular mass of 14 kDa. Recombinant HIV-1 TAT is purified by proprietary chromatographic technique.

**Background:** HIV belongs to the retrovirus family, distinguished by possession of a viral reverse transcriptase that transcribes viral RNA into DNA which is integrated into the host-cell genome. HIV-1 regulatory Trans-Acting Transcription factor (TAT) plays an essential role in viral replication and infectivity. In addition, during acute infection, TAT is released extracellularly 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. Tat can also disturb cellular metabolism by inhibiting proliferation of antigen-specific T lymphocytes and by inducing cellular apoptosis.

**Specificity:** Immuno reactive with all sera of HIV-1 infected individuals.

**Selected References:**


