

Recombinant HIV tat protein Clade-A

Cat. No. tat-188H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

HIV-1 TAT Clade-A Recombinant produced in E.coli is a single, non-glycosylated, polypeptide chain having the Accession number: AY194047.1.

Species

HIV

Source

E.coli

Description

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.

Form

Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized with 10% glycerol.

Purity

Greater than 90.0% as determined by SDS-PAGE.

Applications

Western Blotting, SDS Page. Reacts with Mouse anti-Tat antibodies.

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Usage The products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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). Please prevent freeze-thaw cycles.

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

GENE INFORMATION

Gene Name [tat p14 \[Human immunodeficiency virus 1 \]](#)

Official Symbol [tat](#)

Synonyms [tat](#); [p14](#)

Gene ID [155871](#)

Protein Refseq [NP_057853.1](#)

UniProt ID [P04608](#)

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