

## Lamivudine, Reverse transcriptase inhibitor

Catalog	Unit
TBI2028-500MG	500 mg
TBI2028-2G	2 g

### Product Details

**Formal Name:** 4-Amino-1-[(2R,5S)-2-(hydroxymethyl)1,3-oxathiolan-5-yl]-2(1H)-pyrimidinone

**Alternate Names:** (-)-BCH-189; 3TC

**Molecular Formula:** C<sub>8</sub>H<sub>11</sub>N<sub>3</sub>O<sub>3</sub>S

**Formula Weight:** 229.30

**CAS Number:** 134678-17-4

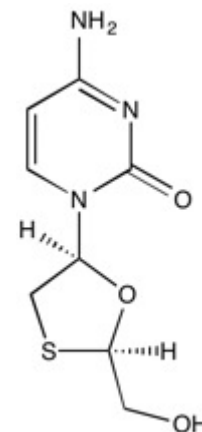
**Purity:** >98%

**Formulation:** powder

**Solubility:** Soluble in DMSO (up to 30 mg/ml)

**Storage:** -20°C

**Stability:** ≥ 2 years.



### Applications

Reverse transcriptase inhibitor

### Functions

A nucleoside analog reverse transcriptase inhibitor. A potent and selective inhibitor of human immunodeficiency virus type 1 (HIV-1) and type 2 (HIV-2). Displays anti-inflammatory effects, including reduction of inflammasome-related proteins P2X7 and NLRP3, in retinal microvascular endothelial cells treated with high glucose and LPS as well as in streptozotocin diabetic mice. Disrupts repeat element life cycle in colorectal cancer.

### Application Procedures

First dissolved in DMSO (up to 30 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 1 month.

**For research use only.**