

Store at
-20°C
#97061**Bromosporine**

5 mg



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For Research Use Only. Not for Use in Diagnostic Procedures.

Background

Bromosporine is a potent broad-spectrum bromodomain inhibitor (1). Bromodomain and extra-terminal (BET) protein family members BRD2, BRD3, BRD4, and BRDT associate with acetylated lysines on histones and transcription factors to regulate their function, and have emerged as targets for cancer therapy (2,3). Treatment with Bromosporine induced the expression of latent HIV-1 in primary CD4⁺ T cells by inhibiting BET activity, leading to improved viral clearance in conjunction with antiretroviral therapy (4).

Molecular Formula

C₁₇H₂₀N₆O₄S

Molecular Weight

404.4 g/mol

Purity

>98%

CAS

1619994-69-2

Solubility

Soluble in DMSO at 25 mg/ml.

Storage

Store lyophilized at -20°C, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, store at -20°C and use within 3 months to prevent loss of potency. *Aliquot to avoid multiple freeze/thaw cycles.*

Directions for Use

Bromosporine is supplied as a lyophilized powder. For a 10 mM stock, reconstitute 5 mg of powder in 1.23 ml of DMSO. Working concentrations and length of treatment can vary depending on the desired effect.

Background References

1. Picaud, S. et al. (2016) *Sci Adv* 2, e1600760.
2. Roberts, T.C. et al. (2017) *Sci Rep* 7, 6153.
3. Cheng, X. et al. (2020) *Biochem Biophys Res Commun* 521, 840-5.
4. Pan, H. et al. (2017) *Oncotarget* 8, 94104-16.

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