Store at -20°C

Bromosporine

#97061

5 mg

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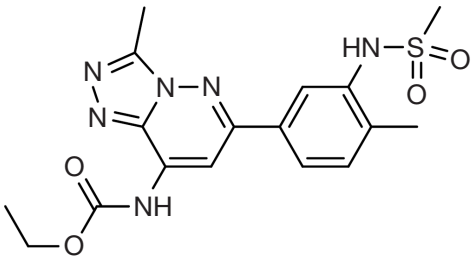
Background: Bromosporine is a potent broad-spectrum bromodomain inhibitor (1). Bromodomain and extra-terminal (BET) protein family members BRD2, BRD3, BRD4, and BRDT associate with acetylated lysines on histones and transcription factors to regulate their function, and have emerged as targets for cancer 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: $C_{17}H_{20}N_6O_4S$



Molecular Weight: 404.4 g/mol

Purity: >98%

CAS: 1619994-69-2

Solubility: Soluble in DMSO at 25 mg/ml.

Storage: Store lyophilized at -20ºC, desiccated. In lyophilized form, the chemical is stable for 24 months. Once in solution, store at -20ºC 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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Applications: **W**—Western **IP**—Immunoprecipitation **IHC**—Immunohistochemistry **ChIP**—Chromatin Immunoprecipitation **IF**—Immunofluorescence **F**—Flow cytometry **E-P**—ELISA-Peptide **Species Cross-Reactivity:** **H**—human **M**—mouse **R**—rat **Hm**—hamster **Mk**—monkey **Mi**—mink **C**—chicken **Dm**—D. melanogaster **X**—Xenopus **Z**—zebrafish **B**—bovine **Dg**—dog **Pg**—pig **Sc**—S. cerevisiae **Ce**—C. elegans **Hr**—Horse **All**—all species expected Species enclosed in parentheses are predicted to react based on 100% homology.