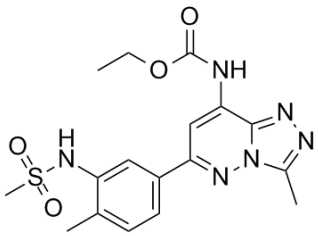
Data Sheet

Product Name:	Bromosporine
Cat. No.:	HY-15815
CAS No.:	1619994-69-2
Molecular Formula:	$C_{17}H_{20}N_6O_4S$
Molecular Weight:	404.44
Target:	Epigenetic Reader Domain
Pathway:	Epigenetics
Solubility:	DMSO: ≥ 51.7 mg/mL



BIOLOGICAL ACTIVITY:

Bromosporine is a broad spectrum inhibitor for bromodomains with IC50 of 0.41 μM, 0.29 μM, 0.122 μM and 0.017 μM for BRD2, BRD4, BRD9 and CECR2, respectively.

IC50 value: 0.41/0.29/0.122/0.017 uM (BRD2/BRD4/BRD9/CECR2) [1]

Target: BRD inhibitor

In cell-based assays, Bromosporine (1 μM) accelerates FRAP recovery of BRD4 and CREBBP, while shows no activities against TIF1α, BAZ2A, and SMARCA2 even at 10 μM. Bromosporine shows moderate cytotoxicity in HeLa cells at 18 μM. Bromosporine, as a chemical probe for bromodomain functional assays, will be very useful in elucidating further biological roles of reader domains.

References:

[1]. 15th HELLENIC SYMPOSIUM OF MEDICINAL CHEMISTRY.

[2]. Bromosporine

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