

# Bromosporine

## Catalog No: tcsc3240



### Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg



### Specifications

**CAS No:**

1619994-69-2

**Formula:**

$C_{17}H_{20}N_6O_4S$

**Pathway:**

Epigenetics

**Target:**

Epigenetic Reader Domain

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 51.7$  mg/mL (127.83 mM)

**Observed Molecular Weight:**

404.44

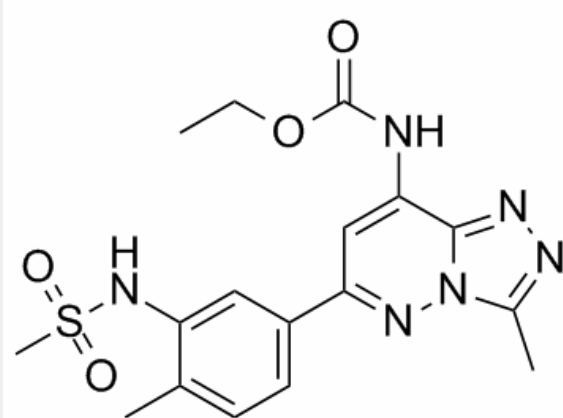
## Product Description

Bromosporine is a broad spectrum inhibitor for bromodomains with IC<sub>50</sub> of 0.41  $\mu$ M, 0.29  $\mu$ M, 0.122  $\mu$ M and 0.017  $\mu$ M for BRD2, BRD4, BRD9 and CECR2, respectively.

IC50 value: 0.41/0.29/0.122/0.017  $\mu$ M (BRD2/BRD4/BRD9/CECR2) [1]

Target: BRD inhibitor

In cell-based assays, Bromosporine (1  $\mu$ M) accelerates FRAP recovery of BRD4 and CREBBP, while shows no activities against TIF1 $\alpha$ , BAZ2A, and SMARCA2 even at 10  $\mu$ M. Bromosporine shows moderate cytotoxicity in HeLa cells at 18  $\mu$ M. Bromosporine, as a chemical probe for bromodomain functional assays, will be very useful in elucidating further biological roles of reader domains.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!