



Xcess Biosciences Inc.

7144 N Harlem Ave #169

Chicago, IL 60631 USA

<http://www.xcessbio.com>

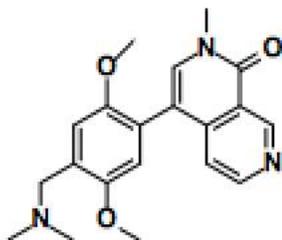
Toll free: 1-866-706-2330

Fax: 1-619- 810-0718

Email: info@xcessbio.com

BRD9 Bromodomain Inhibitor – BI-9564

Chemical Name: 4-(4-((dimethylamino)methyl)-2,5-dimethoxyphenyl)-2-methyl-2,7-naphthyridin-1(2H)-one



| | |
|-------------------|---|
| Molecular Weight: | 353.42 |
| Formula: | C ₂₀ H ₂₃ N ₃ O ₃ |
| Purity: | ≥98% |
| CAS#: | 1883429-22-8 |
| Solubility: | DMSO up to 100 mM |
| Storage | Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year |

Biological Activity:

BI-9546 is a potent, selective and cell-permeable BRD9 inhibitor with IC₅₀~75 nM (Alpha assay). It has good selectivity over BRD7 (IC₅₀~3410 nM, Alpha assay). It has high selectivity against the other bromodomain family members (48 bromodomains) and kinases. In EOL-1 cellular proliferation assay, BI-9546 has IC₅₀ at 800 nM. It has very good pharmacokinetic profiling, and also displays antitumor activity in EOL-1 AML xenograft model with oral treatment. BI-9546 could be a useful chemical tool to further explore BRD9 bromodomain biology in both in vitro and in vivo settings.

How to Use:

In vitro: BI-9546 was used at 1-10 μM in vitro and cellular assays.

In vivo: BI-9546 was orally dosed to mice in EOL-1 AML xenograft model at 180 mg/kg once per day.

Reference:

1. Martin LJ, et al. Structure-Based Design of an in Vivo Active Selective BRD9 Inhibitor. (2016) J Med Chem. 59(10):4462-75.

Products are for research use only. Not for human use.