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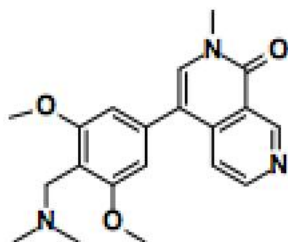
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BRD9 Bromodomain Inhibitor – BI-7273

Chemical Name: 4-(4-((dimethylamino)methyl)-3,5-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#:	1883429-21-7
Solubility:	DMSO up to 100 mM Water up to 100 mM
Storage	Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year

Biological Activity:

BI-7273 is a potent, selective and cell-permeable BRD9 inhibitor with IC₅₀~19 nM (Alpha assay). It also inhibits BRD7 with IC₅₀~117 nM (Alpha assay). It has high selectivity against the other bromodomain family members (48 bromodomains) and kinases. In EOL-1 cellular proliferation assay, BI-7273 has IC₅₀ at 1400 nM. It has very good pharmacokinetic profiling. BI-7273 together with BI-9546, could be useful chemical tools to further explore BRD9 bromodomain biology in both in vitro and in vivo settings.

How to Use:

In vitro: BI-7273 was used at 1-10 μM in vitro and cellular assays.

In vivo: BI-7273 was orally dosed to mice 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.

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