优睿科
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Data Sheet

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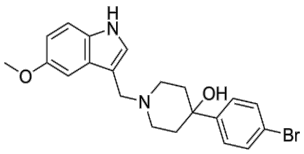
Global Supplier of Chemical Probes, Inhibitors & Agonists

Product Name :SV 156
Cat.No. :URK-V2500
CAS No. :873445-60-4
Molecular Formula :$C_{21}H_{23}BrN_2O_2$
Molecular Weight :415.32
Target :
Solubility :



Biological Activity

SV 156 is a novel small molecule inhibitor. The target of this inhibitor is the mitogen-activated protein kinase (MAPK) pathway, a signaling pathway that plays a crucial role in cell growth, division, and survival.
The mechanism of inhibition of SV 156 is based on its ability to bind and inhibit the activity of the dual-specificity phosphatase 16 (DUSP16), also known as mitogen-activated protein kinase phosphatase 7 (MKP-7), a negative regulator of the MAPK pathway. As a result, the inhibition of DUSP16 leads to the activation of the MAPK pathway and the downstream signaling cascades that contribute to various diseases.

References

1. Zhang Y, Blattman JN, Kennedy NJ, et al. Molecular pharmacology of phosphate inhibitors targeting the dual-specificity phosphatase MKP-7. Drug discovery today. 2018;23(10):1840-1847
2. Sangwan V, Paliwal N, Rani M, et al. SV156, a novel inhibitor of MKP-7, exerts anti-inflammatory effects in macrophages and ameliorates experimental colitis in mice. International immunopharmacology. 2019;75:105811.
3. Yang SH, Sharrocks AD. Target identification of small molecules via in vitro identification of protein-ligand interactions. Expert opinion on drug discovery. 2017;12(1):99-107.

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