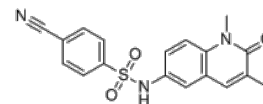


Product Name : NI-42
Cat. No. : PC-61007
CAS No. : 1884640-99-6
Molecular Formula : C₁₈H₁₅N₃O₃S
Molecular Weight : 353.396
Target : Bromodomain
Solubility :



Biological Activity

BRPF1 inhibitor NI-42 (NI-42) is a potent, selective and orally active **BRPF1 bromodomain** inhibitor with IC₅₀ of 7.9 nM, with excellent selectivity over nonclass IV BRDs; weakly inhibits BRPF2 (BRD1), BRPF3, BRD9 and BRD4 (BD1) with IC₅₀ of 48, 260, 310 and 4500 nM respectively, and no activity for ATAD2A/2B (IC₅₀>100 uM); shows a modest (GI₅₀=1-10 uM) and selective inhibition of proliferation of certain cancer lines, particularly those lines exhibiting monocytic lineage differentiation; a novel, structurally orthogonal chemical probe for the BRPFs suitable for cellular and in vivo studies.

References

Igoe N, et al. *J Med Chem.* 2017 Jan 26;60(2):668-680.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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