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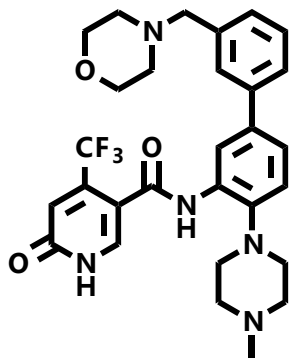
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WDR5 Antagonist – OICR9429

Chemical Name: N-(4-(4-methylpiperazin-1-yl)-3'-(morpholinomethyl)-[1,1'-biphenyl]-3-yl)-6-oxo-4-(trifluoromethyl)-1,6-dihydropyridine-3-carboxamide



Molecular Weight:	555.59
Formula:	C ₂₉ H ₃₂ F ₃ N ₅ O ₃
Purity:	≥98%
CAS#:	n/a
Solubility:	DMSO up to 50 mM
Storage	Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year

Biological Activity:

OICR9429 is a potent and selective WD repeat-containing protein 5 (WDR5) antagonist ($K_d \sim 24\text{-}52$ nM). It has >100-fold selectivity over other methyltransferases tested. It disrupts WDR5 interaction with peptide regions of MLL and Histone 3. OICR-9429 also disrupts the interaction of WDR5 with MLL1 and RbBP5 in cells with IC_{50} values below 1 μM .

How to Use:

In vitro: OICR9429 was used at 5-10 μM final concentration in various in vitro assays.

In vivo: n/a

Reference:

1. <http://www.thesgc.org/chemical-probes/OICR-9429>.

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