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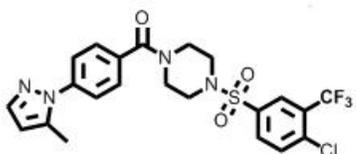
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Smurf1 E3 Ubiquitin Ligase Inhibitor – A01

Chemical Name: (4-((4-chloro-3-(trifluoromethyl)phenyl)sulfonyl)piperazin-1-yl)(4-(5-methyl-1H-pyrazol-1-yl)phenyl)methanone



Molecular Weight:	512.93
Formula:	C ₂₂ H ₂₀ ClF ₃ N ₄ O ₃ S
Purity:	≥98%
CAS#:	1007647-73-5
Solubility:	DMSO up to 100 mM
Storage	Powder: 4 °C 1 year DMSO: 4 °C 3 months -20 °C 1 year

Biological Activity:

A01 is a potent and selective Smurf1 E3 ubiquitin ligase inhibitor with K_d ~3.7 nM. It attenuates Smurf1-mediated Smad 1/5 degradation and enhances BMP signaling. It also potentiates BMP-2-induced osteoblastic activity in C2C12 myoblasts and MC3T3-E1 osteoblast precursor cells.

How to Use:

In vitro: A01 was used at 1-10 μM final concentration in various in vitro assays.

In vivo: n/a

Reference:

1. Cao Y, et al. Selective small molecule compounds increase BMP-2 responsiveness by inhibiting Smurf1-mediated Smad1/5 degradation. (2014) Sci Rep. 4:4965.

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