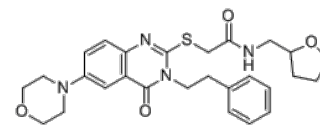


Product Name : BC-1471
Cat. No. : PC-61626
CAS No. : 896683-84-4
Molecular Formula : C₂₇H₃₂N₄O₄S
Molecular Weight : 508.637
Target : Deubiquitinase (DUB)
Solubility : 10 mM in DMSO



Biological Activity

BC-1471 is a selective, small-molecule deubiquitinase **STAM-binding protein (STAMPB)** inhibitor (IC₅₀=0.33 μM) that interrupts STAMPB-Ub-NALP7 interaction.

BC-1471 blocks STAMPB mediated deubiquitination of Ub-NALP7 in vitro, decreases endogenous NALP7 abundance in THP-1 cells, but not NALP6, NALP3, ASC or pro-caspase-1.

BC-1471 suppresses IL-1β release in several complementary human inflammatory systems, including THP-1 monocyte/macrophages, PBMCs and lung organ culture.

References

Bednash JS, et al. *Nat Commun.* 2017 May 11;8:15203.

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

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