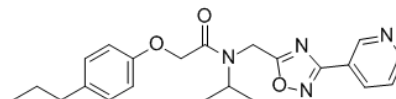


Product Name : PI-1840
Cat. No. : PC-42948
CAS No. : 1401223-22-0
Molecular Formula : C₂₂H₂₆N₄O₃
Molecular Weight : 394.4668
Target : Proteasome
Solubility : 10 mM in DMSO



Biological Activity

PI-1840 is a potent, selective, noncovalent, reversible inhibitor for proteasome chymotrypsin-like (CT-L) activity with IC₅₀ of 27 nM, shows no effect on trypsin-like and peptidylglutamyl peptide hydrolyzing activities (IC₅₀>100 uM); also displays 100-fold more selectivity for the constitutive proteasome over the immunoproteasome; induces the accumulation of proteasome substrates p27, Bax, and IκB-α, inhibits survival pathways and viability, and induces apoptosis in intact cancer cells, also sensitizes human cancer cells to the mdm2/p53 disruptor Nutlin; suppresses the growth in nude mice of human breast tumor xenografts.

References

- Kazi A, et al. J Biol Chem. 2014 Apr 25;289(17):11906-15.
Ozcan S, et al. J Med Chem. 2013 May 23;56(10):3783-805.

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

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