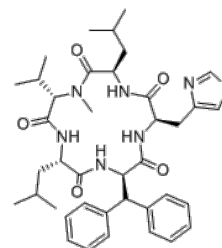


Product Name : SM253
Cat. No. : PC-60497
CAS No. : 1610546-52-5
Molecular Formula : C₃₉H₅₂N₆O₅S
Molecular Weight : 716.942
Target : Heat Shock Protein (HSP)
Solubility : Soluble in 30%ACN/H₂O



Biological Activity

SM253 (SM 253, SM-253) is a novel potent **Hsp90** inhibitor that does not induce heat shock response. SM253 demonstrates cytotoxicity to both HCT-116 and MiaPaCa-2 cells lines with IC₅₀ of 5 and 5.5 μM, respectively. SM253 also induces apoptosis and significantly increases caspase 3/7 activity compared to 17-AAG (2-fold); binds to the N-middle linker region of Hsp90, resulting in reduced client protein activation and preventing C-terminal co-chaperones and client proteins from binding to Hsp90. SM253 exhibits antiproliferative and pro-apoptotic activity in multiple prostate cancer cell lines (LNCaP, 22Rv1, and PC-3) at low micromolar concentrations.

References

- Koay YC, et al. *ACS Med Chem Lett.* 2014 May 13;5(7):771-6.
Armstrong HK, et al. *Prostate.* 2016 Dec;76(16):1546-1559.

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

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