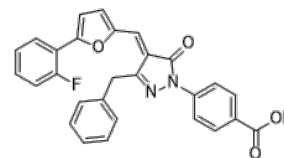


Product Name : GS143
Cat. No. : PC-24524
CAS No. : 916232-21-8
Molecular Formula : C₂₈H₁₉FN₂O₄
Molecular Weight : 466.47
Target : E3 Ubiquitin Ligase
Solubility : 10 mM in DMSO



Biological Activity

GS143 is a specific small molecule inhibitor of E3 ligase β -TrCP, exhibits potent latency reversing agent (LRA) activity, also is a NF-kappaB signaling inhibitor, inhibits I κ B α ubiquitylation (IC₅₀=5.2 μ M).

GS143 selectively inhibits I κ B α ubiquitination inhibitor with IC₅₀ of 5.2 μ M for SCF β TrCP1-mediated I κ B α ubiquitylation.

GS143 displays potent LRA activity in a primary cell model of HIV-1 latency.

GS143 triggers a novel signaling pathway to reactivate latent HIV-1 that leads to the unconventional activation of NF κ B p65, by initiating the noncanonical signaling via NIK, followed by activation of IKK leading to phosphorylation of p65 on S536 and its nuclear translocation.

References

Sarkar S, et al. PLoS Pathog. 2025 Apr 1;21(4):e1013018.

Nakajima H, et al. Biochem Biophys Res Commun. 2008;368(4):1007–13.

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

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