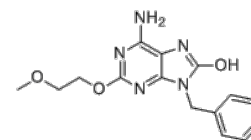


Product Name : SM360320
Cat. No. : PC-72050
CAS No. : 226907-52-4
Molecular Formula : $C_{15}H_{17}N_5O_3$
Molecular Weight : 315.333
Target : Toll-like Receptor (TLR)
Solubility : 10 mM in DMSO



Biological Activity

SM360320 (CL-087, 1V136) is a potent, orally active and selective **TLR7** agonist (ligand). SM360320 inhibited HCV replication in Huh-7 cells in a dose-dependent manner in the Huh-7 replicon system, reduced HCV mRNA and protein levels in isolated Huh-7 hepatocytes. SM360320 induced in vivo secretion of interferon alpha (IFN α) and exerted a significant antitumor effect in CEA.Tg mice challenged with a syngenic tumor cell line expressing CEA. SM360320 exerts significant antitumor effects and can act in association with DNA-EP for CEA-positive colon cancer and HER2-positive mammary carcinoma. Repeated low dose administration of SM360320 induced hyporesponsiveness or tolerance to TLR2, -7, and -9 activators and limited the course of neural inflammation in an experimental allergic encephalomyelitis model.

References

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Hayashi T, et al. *Proc Natl Acad Sci U S A*. 2009 Feb 24;106(8):2764-9.
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Caution: Product has not been fully validated for medical applications. Lab Use Only!

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