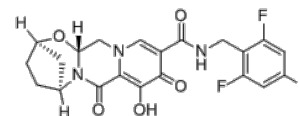


Product Name : Bictegravir
Cat. No. : PC-61944
CAS No. : 1611493-60-7
Molecular Formula : C₂₁H₁₈F₃N₃O₅
Molecular Weight : 449.39
Target : HIV
Solubility : 10 mM in DMSO



Biological Activity

Bictegravir (GS 9883) is a potent **HIV-1 integrase (IN)** that specifically targets IN strand transfer activity with IC₅₀ of 7.5 nM. Bictegravir (GS 9883) exhibits potent and selective in vitro antiretroviral activity in both T-cell lines and primary human T lymphocytes with EC₅₀ of 1.5-2.4 nM, with minimal cytotoxicity;. Bictegravir (GS 9883) exhibits synergistic in vitro antiviral effects in pairwise combinations with tenofovir alafenamide, emtricitabine, or darunavir and maintains potent antiviral activity against HIV-1 variants.

References

- Tsiang M, et al. *Antimicrob Agents Chemother.* 2016 Nov 21;60(12):7086-7097.
- Gallant JE, et al. *J Acquir Immune Defic Syndr.* 2017 May 1;75(1):61-66.
- Hassounah SA, et al. *Antimicrob Agents Chemother.* 2017 Nov 22;61(12). pii: e01695-17.

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

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