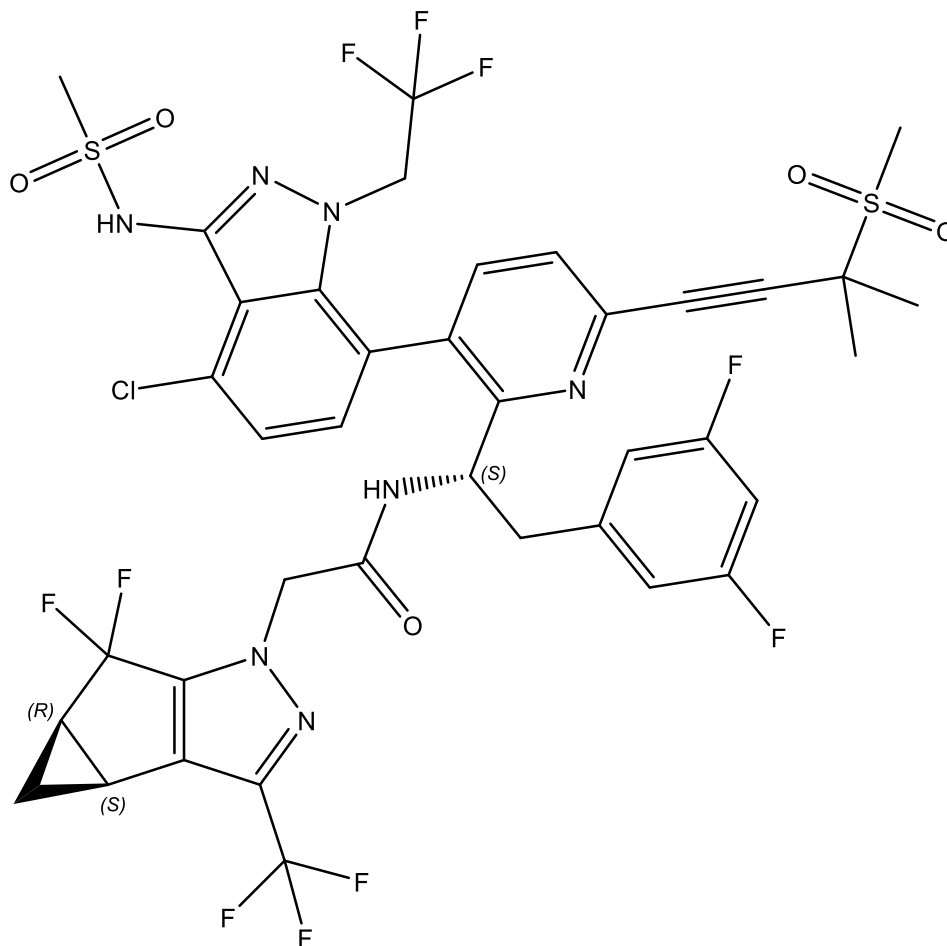


Name: GS-6207 cat#: EX-A5518

Structure



Chemical Name	(3bS,4aR)-N-[(1S)-1-[3-[4-Chloro-3-[(methylsulfonyl)amino]-1-(2,2,2-trifluoroethyl)-1H-indazol-7-yl]-6-[3-methyl-3-(methylsulfonyl)-1-butyn-1-yl]-2-pyridinyl]-2-(3,5-difluorophenyl)ethyl]-5,5-difluoro-3b,4,4a,5-tetrahydro-3-(trifluoromethyl)-1H-cyclopropa[3,4]cyclopenta[1,2-c]pyrazole-1-acetamide		
---------------	---	--	--

Molecular Weight	968.282	Storage	3 years -20°C powder
Formula	C ₃₉ H ₃₂ ClF ₁₀ N ₇ O ₅ S ₂		6 months -80°C in solvent Away from light
CAS No.	2189684-44-2	Synonyms	Lenacapavir

Solubility (25°C) *	In vitro	DMSO	Soluble
		Ethanol	N/A
		Water	N/A

	In vivo (should be freshly prepared each time)	
--	--	--

* <1 mg/ml means slightly soluble or insoluble.
 * Please note that Selleck tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.

Preparing Stock Solutions:

Mass Volume Concentration	1 mg	5 mg	10 mg
1 mM	1.0328 mL	5.1638 mL	10.3276 mL
5 mM	0.2066 mL	1.0328 mL	2.0655 mL
10 mM	0.1033 mL	0.5164 mL	1.0328 mL

*The above data is based on the product molecular weight 811.047.

Biological Activities:

Description	GS-6207 (Lenacapavir) is a HIV-1 capsid inhibitor. Lenacapavir shows anti-HIV activity with an EC50 of 100 pM in MT-4 cells.
--------------------	--

Targets	HIV
In vitro	DMSO : 200 mg/mL (206.55 mM; Need ultrasonic)
In vivo	1. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: $\geq$ 6.25 mg/mL (6.45 mM); Clear solution 2. Add each solvent one by one: 5% DMSO >> 40% PEG300 >> 5% Tween-80 >> 50% saline Solubility: 2.5 mg/mL (2.58 mM); Suspended solution; Need ultrasonic
References	[1]. Singh K, et al. GS-CA Compounds: First-In-Class HIV-1 Capsid Inhibitors Covering Multiple Grounds. Front Microbiol. 2019 Jun 20;10:1227. [2]. John O Link, et al. Clinical targeting of HIV capsid protein with a long-acting small molecule. Nature. 2020 Jul 1.