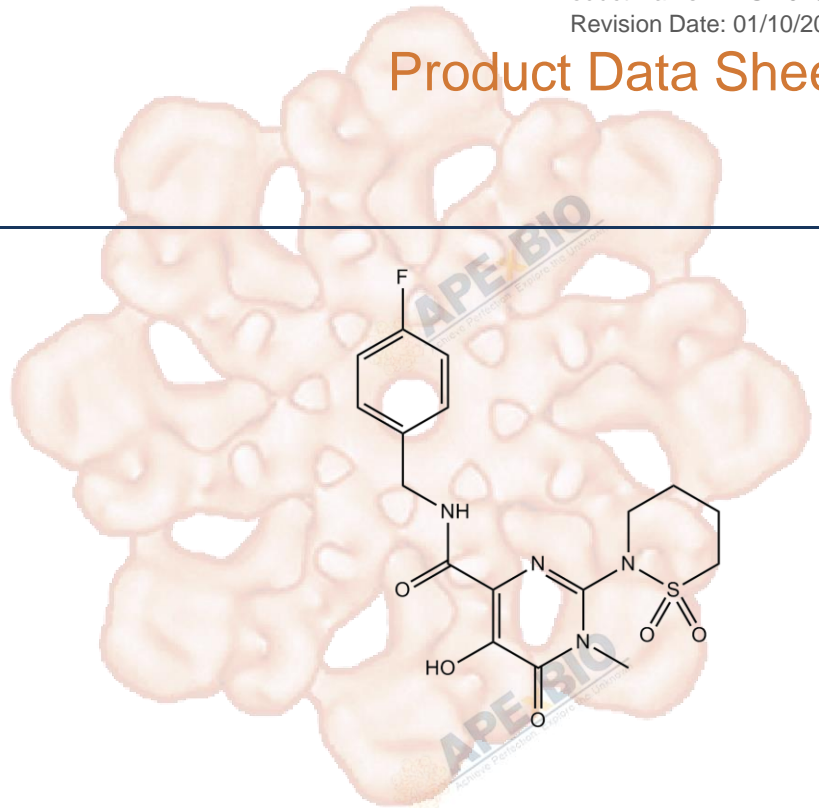


Product Data Sheet

BMS-707035

Cat. No.:	A4069
CAS No.:	729607-74-3
Formula:	C17H19FN4O5S
M.Wt:	410.4
Synonyms:	
Target:	Proteases
Pathway:	HIV Integrase
Storage:	Store at -20°C



Solvent & Solubility

insoluble in EtOH; insoluble in H₂O; ≥41 mg/mL in DMSO

In Vitro

Preparing	Solvent	Mass		
		1mg	5mg	10mg
Stock Solutions	Concentration			
	1 mM	2.4366 mL	12.1832 mL	24.3665 mL
	5 mM	0.4873 mL	2.4366 mL	4.8733 mL
	10 mM	0.2437 mL	1.2183 mL	2.4366 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary: HIV-I integrase inhibitor, potent and specific

IC₅₀ & Target: 15 nM (HIV-I integrase)

Cell Viability Assay

In Vitro

Cell Line:	Human immunodeficiency virus (HIV)
Preparation method:	The solubility of this compound in DMSO is > 10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below

		-20°C for several months.
	Reacting conditions:	IC50: 15 nM
	Applications:	BMS-707035 was a potent, specific, and reversible HIV-I integrase (IN) inhibitor that blocked HIV IN strand transfer activity with IC50 of 15 nM. Several IN mutations, including V75I, Q148R, V151I, and G163R were resistant to HIV IN inhibitors. The binding of BMS-707035 and target DNA to IN was mutually exclusive events, as revealed by the fact that the inhibition of strand transfer catalysis by BMS-707035 was overcome by increasing amount of target DNA. The binding affinity of BMS-707035 to IN was affected by the four terminal bases at the 5' end of the pre-processed U5 long terminal repeat (LTR). Gln148 of IN was crucial for the binding of BMS-707035 to IN.
	Animal experiment	
In Vivo	Applications:	
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Dicker I B, Samanta H K, Li Z, et al. Changes to the HIV long terminal repeat and to HIV integrase differentially impact HIV integrase assembly, activity, and the binding of strand transfer inhibitors[J]. Journal of Biological Chemistry, 2007, 282(43): 31186-31196.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX-BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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