Product Data Sheet

Product Name: I-BET567
Cat. No.: GC64297

Chemical Properties

Cas. No.	1887237-54-8		
Formula	C17H18ClN5O2	M.Wt	359.81
Solubility	DMSO : 100 mg/mL (277.92 mM; Need ultrasonic)	Storage	4°C, protect from light
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	I-BET567		

Background

I-BET567 is a potent and orally active inhibitor of pan-BET candidate with pIC50s of 6.9 and 7.2 for BRD4 BD1 and BD2, respectively. I-BET567 has been demonstrated efficacy in mouse models of oncology and inflammation[1].

I-BET567 (compound 27) (72 hours; 1.5 nM-30 μM) effectively inhibites the proliferation of human NMC cell line 11060 in vitro with a mean gpIC50 6.2 (0.63 μM)[1].

I-BET567 (compound 27) (3, 10, and 30 mg/kg; p.o.; once daily for 20 days) leads to a significant reduction in tumor growth compared with vehicle controls at both 10 and 30 mg/kg[1].Assessment of Pharmacokinetics (PK) profile of I-BET567 following intravenous infusion and oral administration in male wistar han rat and beagle doga[1]. species dose ivb/poc (mg/kg) CLb (mL/min/kg) CLb,u (mL/min/kg) CLrenal (mL/min/kg) Vss (L/kg) Vss,u (L/kg) t1/2 (h) Fpo (%) fub rat1.3/32510972.410.41.699d0.23 dog1.0/38.1206.91.22.91.8980.41a: Values are mean, n=3 unless otherwise stated. b: IV dose 1h infusion in DMSO and (10%, w/v) Kleptose HPB in saline (2%: 98% (v/v)). c: PO dose vehicle: 1%(w/v) methycellulose (400 cps) (aq). d: Mean n = 2.

[1]. Humphreys PG, et al. Design, Synthesis, and Characterization of I-BET567, a Pan-

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Bromodomain and Extra Terminal (BET) Bromodomain Oral Candidate [published online ahead of print, 2022 Jan 7].

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