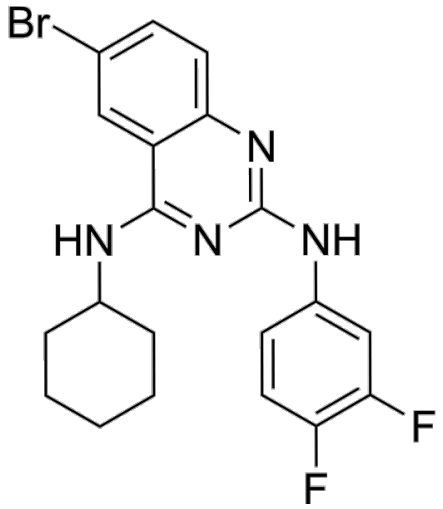
Product Data Sheet

Product Name: AP-7-168
Cat. No.: GC81037

Chemical Properties

Cas. No.	2816062-15-2		
Formula	$C_{20}H_{19}BrF_2N_4$	M.Wt	433.29
Solubility	DMSO: 100 mg/mL (230.79 mM; Need ultrasonic)	Storage	Store at 4°C, stored under nitrogen
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C 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



Background

AP-7-168, molecular glues, is a β-arrestin-biased negative allosteric modulator of the β2-adrenergic receptor (β2AR). AP-7-168 can promote β2AR homodimerization and inhibit GRK5-mediated β2AR phosphorylation. AP-7-168 can sustain bronchorelaxation in cell and tissue. AP-7-168 can be used

for the researches of inflammation and immunology, such as asthma [1].

In Vitro, AP-7-168 (0.03-100 μM, 1 h) promotes β2AR homodimerization in HEK293 cells with a pEC50 of 5.93[1]. AP-7-168 (10 μM) inhibits β-arrestin2 recruitment and GRK5-mediated β2AR phosphorylation in β2AR-expressing cells[1].

References:
[1]. Jiemin Shen, et al. A biased allosteric modulator functions as a molecular glue to induce β2AR dimerization. bioRxiv. October 22, 2025.