

Product Data Sheet

Product Name: AP-7-168

Cat. No.: GC81037

Chemical Properties

Cas. No. 2816062-15-2

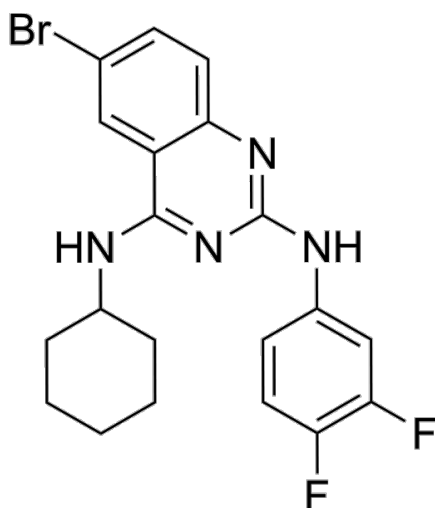
Formula $C_{20}H_{19}BrF_2N_4$ M.Wt 433.29

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 glue, is a β -arrestin-biased negative allosteric modulator of the β 2-adrenergic receptor (β 2AR). AP-7-168 can promote β 2AR homodimerization and inhibit GRK5-mediated β 2AR phosphorylation. AP-7-168 can sustain bronchorelaxation in cell and tissue. AP-7-168 can be used

Caution: Product has not been fully validated for medical applications. For research use only.

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

In Vitro, AP-7-168 (0.03-100 μ M, 1 h) promotes β 2AR homodimerization in HEK293 cells with a pEC50 of 5.93^[1]. AP-7-168 (10 μ M) inhibits β -arrestin2 recruitment and GRK5-mediated β 2AR phosphorylation in β 2AR-expressing cells^[1].

References:

[1]. Jiemin Shen, et al. A biased allosteric modulator functions as a molecular glue to induce β 2AR dimerization. bioRxiv. October 22, 2025.

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