
Product Data Sheet

Product Name: AC1-IN-1
Cat. No.: GC65376

Chemical Properties

Cas. No. 2762422-55-7

Formula C₁₈H₁₈FN₅O₂ M.Wt 355.37

Solubility Storage Store at -20°C

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

AC1-IN-1 is a potent and selective Adenylyl cyclase type 1 (AC1) inhibitor with an IC₅₀ of 0.54 μM. AC1-IN-1 displays modest antiallodynic effects in a mouse model of inflammatory pain. AC1-IN-1 has CNS activity[1].

AC1-IN-1 (compound 38; HEK293 cells; 30 μM, 1 hours) shows nontoxic to this human cell line[1].

AC1-IN-1 (5.6 mg/kg; i.v.) displays modest, yet statistically significant, antiallodynic effects at 1 h post-treatment compared to the 0 min (allodynic) time point[1].

[1]. Scott JA, et al. Optimization of a Pyrimidinone Series for Selective Inhibition of Ca²⁺/Calmodulin-Stimulated Adenylyl Cyclase 1 Activity for the Treatment of Chronic Pain. J Med Chem. 2022; 65(6):4667-4686.

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

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