
Product Data Sheet

Product Name: PDE4B-IN-3

Cat. No.: GC68460

Chemical Properties

Cas. No.

Formula C₃₀H₃₅N₃O₄S₂

M.Wt 565.75

Solubility DMSO : 50 mg/mL (88.38 mM; Need ultrasonic) 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

PDE4B-IN-3 is a potent **PDE4B** inhibitor with an **IC₅₀** of 0.94 μM. PDE4B-IN-3 has anti-inflammatory activities^[1].

PDE4B-IN-3 (compound f4) has good inhibitory activity on the production of NO, TNF-α and IL-1β with IC₅₀ values of 20.40 μM, 23.48 μM, and 18.98 μM in RAW264.7 cells.

PDE4B-IN-3 could also inhibit the expression of iNOS and COX-2 in RAW264.7 cells^[1].

In vivo studies shows that PDE4B-IN-3 (compound f4; 10-30 mg/kg) could improve the degree of foot swelling and knee joint pathology in adjuvant-induced arthritic rats and decrease the levels of serum inflammatory factors TNF-α and IL-1β in a dose-dependent manner^[1].

[1]. Siqi Xing, et al. Novel quinoline-based derivatives: A new class of PDE4B inhibitors for adjuvant-induced arthritis. Eur J Med Chem. 2022 Aug 5;238:114497.

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

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