

Product Data Sheet

Product Name: PDE1-IN-11

Cat. No.: GC79743

Chemical Properties

Cas. No. 86009-41-8

Formula $C_{14}H_{18}N_2OS$ M.Wt 262.37

Solubility DMSO: 10 mg/mL (38.11 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.

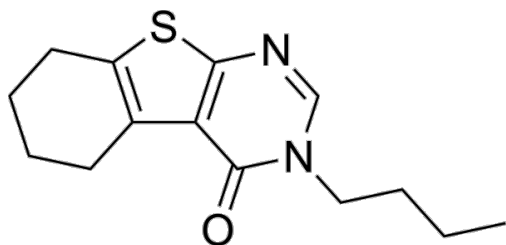
Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

Structure



Background

PDE1-IN-11 (Compound 5cc) is an orally active and highly selective PDE1A1 inhibitor. PDE1-IN-11 increases intracellular cAMP and cGMP levels, activating the PKA-CREB and NO-cGMP-PKG signaling pathways, promoting osteoblast differentiation and bone formation, while suppressing osteoclastogenesis and bone resorption. PDE1-IN-11 is promising for research of postmenopausal osteoporosis (PMO) and other bone metabolism disorders [1].

References:

[1]. Abbasi FM, et al. Discovery of an Orally Active PDE1 Inhibitor for Disease-Modifying Treatment of Postmenopausal Osteoporosis via Dual Anabolic-Antiresorptive Mechanisms. J Med Chem. 2025 Oct 9;68(19):20536-20560.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA