

Product Data Sheet

Product Name: A3373
Cat. No.: GC71329

Chemical Properties

Cas. No. 2324948-66-3

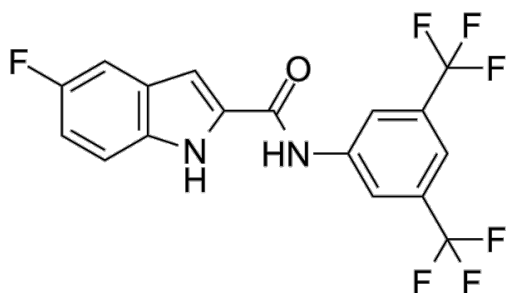
Formula $C_{17}H_9F_7N_2O$ M.Wt 390.25

Solubility DMSO : 100 mg/mL (256.25 mM; ultrasonic and warming and heat to 60°C; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO) Storage -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

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

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A3373, a novel chemical inhibitor of Phospholipase D1 (PLD1) and PLD2, with IC₅₀ of 325 nM and 15.15 μ M, respectively, inhibits LPS-induced immune response and plays important roles in autoimmune arthritis, bone demineralization and osteoclastogenesis.

References:

- [1]. Won Chan Hwang, et al. Inhibition of phospholipase D1 induces immunogenic cell death and potentiates cancer immunotherapy in colorectal cancer. *Exp Mol Med*. 2022 Sep;54(9):1563-1576.
- [2]. Jin-Sil Park, et al. A newly developed PLD1 inhibitor ameliorates rheumatoid arthritis by regulating pathogenic T and B cells and inhibiting osteoclast differentiation. *Immunol Lett*. 2023 Sep 16:263:87-96.

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