

Product Data Sheet

Product Name: SM 324405

Cat. No.: GC50165

Chemical Properties

Cas. No. 677773-91-0

SMILES NC1=NC(OCCCC)=NC(N2CC3=CC=CC(CC(OC)=O)=C3)=C1NC2=O

Formula C₁₉H₂₃N₅O₄

M.Wt 385.42

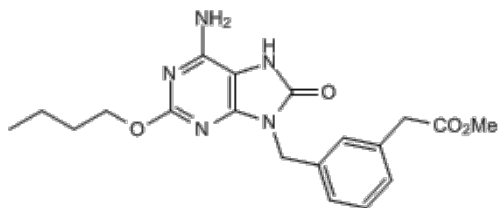
Solubility DMSO: 100 mM

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

Potent TLR7 agonist (EC₅₀ = 50 nM). Exhibits selectivity for TLR7 over TLR8. Induces IFN-α and -γ expression in human PBMCs and mouse splenocytes, and inhibits IL-5 production in human PBMCs in vitro. Rapidly metabolized to acid metabolite (t_{1/2} = 2.6 min in human plasma).

Kurimoto et al (2010) Synthesis and biological evaluation of 8-oxoadenine derivatives as toll-like receptor 7 agonists introducing the antedrug concept. J.Med.Chem. 53 2964 PMID:20232824 | Biffen et al (2012) Biological characterization of a novel class of toll-like receptor 7 agonists designed to have reduced systemic activity. Br.J.Pharmacol. 166 573 PMID:22122192

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

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