

Product Data Sheet

Product Name: Toll-Like Receptor 7 Ligand II

Cat. No.: GC45063

Chemical Properties

Cas. No. 226907-52-4

SMILES COCCOC1=NC(N)=C2C(N(CC3=CC=CC=C3)C(N2)=O)=N1

Formula C₁₅H₁₇N₅O₃

M.Wt 315.3

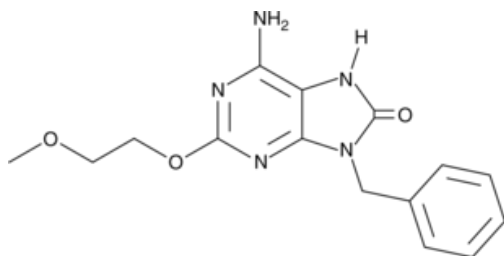
Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, DMSO:PBS (pH 7.2) (1:1): 0.5 mg/ml

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

A potential treatment for hepatitis C virus (HCV) is to induce immune cell-derived interferon (IFN) production using synthetic agonists of toll-like receptor 7 (TLR7). TLR7 ligand II is an orally bioavailable 8-hydroxyadenine analog that induces IFN production by binding to TLR7 on immune cells. It induces IFN α in human peripheral blood mononuclear cells with an EC₅₀ value of 0.14 μ M. At 10 μ M, TLR7 ligand II was shown to reduce HCV levels by 60% in 24 hours in the human hepatocyte cell line Huh7, which carries a HCV replicon. It induces IFN in mice with a minimal effective dose of approximately 0.03 mg/kg, making it approximately 100-fold more potent than imiquimod.

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

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