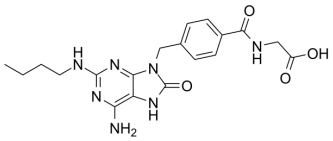
CL264

Cat. No.:	HY-135905
CAS No.:	1510712-69-2
Molecular Formula:	$C_{19}H_{23}N_7O_4$
Molecular Weight:	413.43
Target:	Toll-like Receptor (TLR)
Pathway:	Immunology/Inflammation
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 25 mg/mL (60.47 mM; Need ultrasonic)

H_2O : < 0.1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.4188 mL	12.0939 mL	24.1879 mL
5 mM	0.4838 mL	2.4188 mL	4.8376 mL
10 mM	0.2419 mL	1.2094 mL	2.4188 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (5.03 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

CL264 is a TLR7-specific agonist for innate immune signals research[1].

IC_{50} & Target

TLR7

In Vitro

Toll like receptors (TLRs) are the best-studied class of receptors that are essential players in the detection of a range of lipid-, protein-, nucleic acid-based PAMPs. TLR7 is expressed predominantly in plasmacytoid dendritic cells (pDCs), macrophages and B cells. Many TLR7 modulators are interferon inducers, anti-cancer agents, anti-infectious agents, therapeutic agents for immunological diseases and vaccine adjuvants[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Butterfield JSS, et al. TLR9-Activating CpG-B ODN but Not TLR7 Agonists Triggers Antibody Formation to Factor IX in Muscle Gene Transfer. Hum Gene Ther Methods. 2019 Jun;30(3):81-92.

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