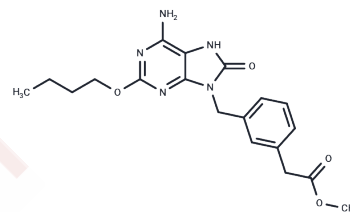


SM-324405

## Chemical Properties

CAS No. : 677773-91-0  
 Formula: C<sub>19</sub>H<sub>23</sub>N<sub>5</sub>O<sub>4</sub>  
 Molecular Weight: 385.42  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	SM-324405 is an agonist of TLR7.
Targets(IC50)	TLR
In vivo	The TLR7 agonist with antedrug characteristics 9e (SM-324405) is a novel candidate for immunotherapy of allergic diseases[1].

## Solubility Information

Solubility	DMSO: 9 mg/mL (23.35 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 0.5 mg/mL (1.3 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5946 mL	12.9729 mL	25.9457 mL
5 mM	0.5189 mL	2.5946 mL	5.1891 mL
10 mM	0.2595 mL	1.2973 mL	2.5946 mL
50 mM	0.0519 mL	0.2595 mL	0.5189 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Kurimoto A, Hashimoto K, Nakamura T. Synthesis and biological evaluation of 8-oxoadenine derivatives as toll-like receptor 7 agonists introducing the antedrug concept[J]. J Med Chem. 2010 Apr 8 ;53(7):2964-72.

Biological characterization of a novel class of toll-like receptor 7 agonists designed to have reduced systemic activity[J]. British Journal of Pharmacology, 2012, 166(2).

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E\_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481