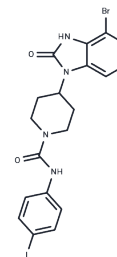


TH5487

## Chemical Properties

CAS No. : 2304947-71-3  
 Formula: C<sub>19</sub>H<sub>18</sub>BrIN<sub>4</sub>O<sub>2</sub>  
 Molecular Weight: 541.18  
 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	TH5487 is a potent inhibitor of 8-oxoguanine DNA glycosylase 1 (OGG1) (IC <sub>50</sub> of 342 nM)
Targets(IC <sub>50</sub> )	Others, DNA/RNA Synthesis
In vitro	TH5487 Inhibited proinflammatory gene expression dose-dependently.
In vivo	TH5487 (prophylactic intraperitoneally injection; 8-30 mg/kg; 1-9 hours) decreases TNF $\alpha$ or LPS induced the robust recruitment of neutrophils to the airways, and reduces the pulmonary neutrophil count in a time-dependent manner. TH5487 Interrupted TNF $\alpha$ -induced ongoing inflammatory processes.
Cell Research	Cell Line: Murine airway epithelial cell line (MLE 12); Diploid human small-airway epithelial cell (hSAECs). Concentration: 5 $\mu$ M. Incubation Time: 1 hour
Animal Research	Animal Model: Eightweek-old female and male BALB/c mice. Dosage: 8 mg/kg, 15 mg/kg, 30 mg/kg. Administration: Prophylactic intraperitoneally injection; 8-30 mg/kg; 1-9 hours

## Solubility Information

Solubility	DMSO: 45 mg/mL (83.15 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (3.7 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.8478 mL	9.2391 mL	18.4781 mL
5 mM	0.3696 mL	1.8478 mL	3.6956 mL
10 mM	0.1848 mL	0.9239 mL	1.8478 mL
50 mM	0.037 mL	0.1848 mL	0.3696 mL

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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

Visnes T, et al. Small-molecule inhibitor of OGG1 suppresses proinflammatory gene expression and inflammation. Science. 2018 Nov 16;362(6416):834-839.

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

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