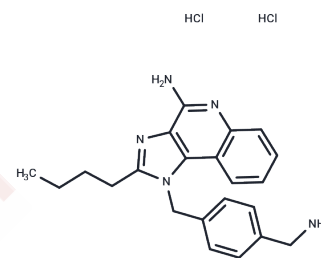


## TLR7/8 agonist 1 dihydrochloride

### Chemical Properties

CAS No. :	1620278-72-9
Formula:	C <sub>22</sub> H <sub>27</sub> Cl <sub>2</sub> N <sub>5</sub>
Molecular Weight:	432.39
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	TLR7/8 agonist 1 dihydrochloride (TLR7/8 agonist-5d) is a TLR7/8 agonist which shows prominent immunostimulatory activities.
Targets(IC50)	TLR

### Solubility Information

Solubility	H <sub>2</sub> O: 50 mg/mL (115.64 mM),Sonication is recommended. DMSO: 70 mg/mL (161.89 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 (4.63 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	2.3127 mL	11.5636 mL	23.1273 mL
5 mM	0.4625 mL	2.3127 mL	4.6255 mL
10 mM	0.2313 mL	1.1564 mL	2.3127 mL
50 mM	0.0463 mL	0.2313 mL	0.4625 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

Shukla NM, et al. Syntheses of fluorescent imidazoquinoline conjugates as probes of Toll-like receptor 7. Bioorg Med Chem Lett. 2010 Nov 15;20(22):6384-6.

Beesu M, et al. Structure-Based Design of Human TLR8-Specific Agonists with Augmented Potency and Adjuvanticity. J Med Chem. 2015 Oct 8;58(19):7833-49.

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