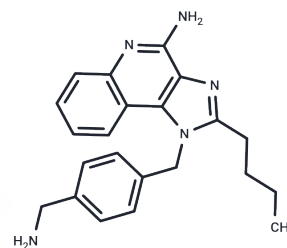


## TLR7/8 agonist 1

## Chemical Properties

CAS No. :	1258457-59-8
Formula:	C <sub>22</sub> H <sub>25</sub> N <sub>5</sub>
Molecular Weight:	359.47
Storage:	Keep away from moisture Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	TLR7/8 agonist 1 is a toll-like receptor TLR7/TLR8 agonist with anticancer and antiviral activities and can be used to study immune-related diseases.
Targets(IC <sub>50</sub> )	TLR
In vitro	TLR7/8 agonist 1 displays significant immunostimulatory activity. The compound can be directly covalently coupled to commercially available fluorescein isothiocyanate (FITC) and rhodamine B isothiocyanate without significant loss of activity. TLR7/8 agonist 1 retains TLR7 agonist activity with an EC <sub>50</sub> =20 nM. [1]

## Solubility Information

Solubility	DMSO: 8 mg/mL (22.25 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.7819 mL	13.9094 mL	27.8187 mL
5 mM	0.5564 mL	2.7819 mL	5.5637 mL
10 mM	0.2782 mL	1.3909 mL	2.7819 mL
50 mM	0.0556 mL	0.2782 mL	0.5564 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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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481