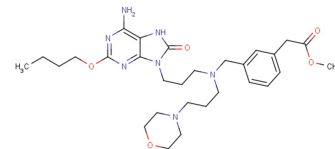


AZD8848

## Chemical Properties

CAS No.:	866269-28-5
Formula:	C <sub>29</sub> H <sub>43</sub> N <sub>7</sub> O <sub>5</sub>
Molecular Weight:	569.7
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	AZD8848 is a selective antedrug agonist of toll-like receptor 7 (TLR7). It is developed for the research of asthma and allergic rhinitis.
Targets(IC <sub>50</sub> )	TLR7: None
In vitro	AZD8848 is able to inhibit Th2 responses in vitro. AZD8848 shows good activity against TLR7, with cellular pEC <sub>50</sub> s of 7.0 and 6.6 for human TLR7 and rat TLR7, respectively. AZD8848 has no activity against human TLR8 or against any of the other human TLRs. AZD8848 has an EC <sub>50</sub> of 4 nM in the induction of IFN $\alpha$ from human PBMCs and an IC <sub>50</sub> of 0.2-1.0 nM for the inhibition of IL-5, irrespective of whether the T cells have been polyclonally stimulated with PHA or via antigen presentation.
In vivo	AZD8848 (0.3 mg/kg; Intratracheal) suppresses the ovalbumin (OVA) challenge in the rat allergy model. AZD8848 (0.1-1 mg/kg; intratracheal) has good pharmacokinetics in the Brown Norway rat.

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.755 mL	8.777 mL	17.553 mL
5 mM	0.351 mL	1.755 mL	3.511 mL
10 mM	0.176 mL	0.878 mL	1.755 mL
50 mM	0.035 mL	0.176 mL	0.351 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

### Reference

1. Delaney S, et al. Tolerability in man following inhalation dosing of the selective TLR7 agonist, AZD8848. *BMJ Open Respir Res.* 2016 Feb 23;3(1):e000113.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:[info@targetmol.com](mailto:info@targetmol.com)

Address:36 Washington Street,Wellesley Hills,MA 02481