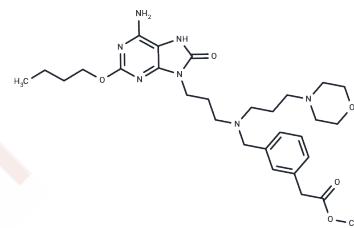


AZD8848

## 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  
 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	AZD8848 is a selective antagonist agonist of toll-like receptor 7 (TLR7). It is developed for the research of asthma and allergic rhinitis.
Targets(IC50)	TLR
In vitro	AZD8848 is able to inhibit Th2 responses in vitro. AZD8848 shows good activity against TLR7, with cellular pEC50s 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 EC50 of 4 nM in the induction of IFN $\alpha$ from human PBMCs and an IC50 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.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7553 mL	8.7765 mL	17.5531 mL
5 mM	0.3511 mL	1.7553 mL	3.5106 mL
10 mM	0.1755 mL	0.8777 mL	1.7553 mL
50 mM	0.0351 mL	0.1755 mL	0.3511 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

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.

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