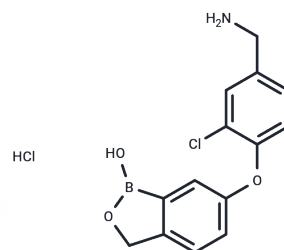


AN3485 Hydrochloride

Chemical Properties

CAS No. :	1213786-72-1
Formula:	C ₁₄ H ₁₄ BCl ₂ NO ₃
Molecular Weight:	325.98
Storage:	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	AN3485 Hydrochloride is a novel anti-inflammatory agent and Toll-like receptor (TLR) inhibitor. It can reduce PMA-induced ear swelling and is used in dermatological research.
Targets(IC50)	NF-κB, Interleukin, TLR
In vitro	AN3485 Hydrochloride is an inhibitor of Toll-Like Receptors (TLRs) with an IC ₅₀ ranging from 18 to 580 nM. [1]
In vivo	Oral administration of AN3485 Hydrochloride dose-dependently inhibited LPS-induced TNF-α and IL-6 production in mice with an ED(90) of 30 mg/kg Oral administration of AN3485 Hydrochloride at a dose of 35 mg/kg twice daily was effective in alleviating collagen-induced arthritis symptoms in mice within 20 days. [1]

Solubility Information

Solubility	DMSO: 2 mg/mL (6.14 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	3.0677 mL	15.3384 mL	30.6767 mL
5 mM	0.6135 mL	3.0677 mL	6.1353 mL
10 mM	0.3068 mL	1.5338 mL	3.0677 mL
50 mM	0.0614 mL	0.3068 mL	0.6135 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

Dong C, et al. Inhibition of Toll-like receptor-mediated inflammation in vitro and in vivo by a novel benzoxaborole. J Pharmacol Exp Ther. 2013 Feb;344(2):436-46.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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