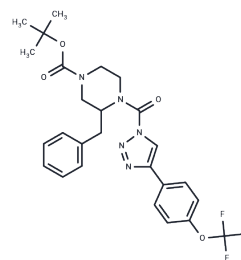


DO34

Chemical Properties

CAS No. : 1848233-58-8
Formula: C₂₆H₂₈F₃N₅O₄
Molecular Weight: 531.53
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	DO34 is a highly potent and centrally active inhibitor of diacylglycerol lipase (IC ₅₀ : 6 nM for DAGL α conversion of SAG to 2-AG).
Targets(IC ₅₀)	Others
In vitro	DO34 also is a potent inhibitor of DAGL β with IC ₅₀ of 3-8 nM [1].
In vivo	DO34 could block the tonic CB1 activation. DO34 prevents fasting-induced refeeding of mice, this is typical cannabinoid CB1-receptor-mediated behavior. DO34 decreases brain 2-AG levels in a dose- and time-dependent manner [2]. AM251 obviously increases basal PF-EPSCs in MAGL-TKO mice. The effect of AM251 is blocked by the DAGL inhibitor DO34 [3].

Solubility Information

Solubility	DMSO: 100 mg/mL (188.14 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8814 mL	9.4068 mL	18.8136 mL
5 mM	0.3763 mL	1.8814 mL	3.7627 mL
10 mM	0.1881 mL	0.9407 mL	1.8814 mL
50 mM	0.0376 mL	0.1881 mL	0.3763 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.

Reference

Ogasawara D, et al. Rapid and profound rewiring of brain lipid signaling networks by acute diacylglycerol lipase inhibition. Proc Natl Acad Sci U S A. 2016 Jan 5;113(1):26-33.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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