

## Rabeximod

## Chemical Properties

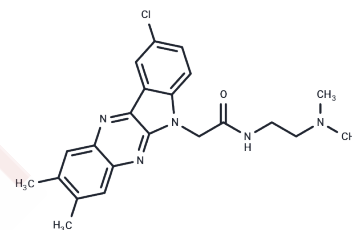
CAS No. : 872178-65-9

Formula: C<sub>22</sub>H<sub>24</sub>ClN<sub>5</sub>O

Molecular Weight: 409.91

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	Rabeximod is a potent immunomodulator that reduces the severity of autoimmune diseases in rat models. Rabeximod inhibits arthritis in a time-dependent manner by stimulating TLR2 and TLR4 downstream to block the activation of inflammatory cells, most likely macrophages. Rabeximod effectively reduces brain antigen presentation in mice during anti-inflammatory therapy for traumatic brain injury.
Targets(IC50)	TLR
In vivo	Rabeximod efficiently prevented arthritis during the time window when TLR2 or TLR4 ligands activate inflammatory macrophages. The effect operated downstream of TLR activation as Rabeximod was highly therapeutic in CAIA enhanced through TLR2 stimuli in TLR4 deficient mice. In addition, it was found that the arthritis ameliorating effect of Rabeximod was time dependent, since inhibition of tumour necrosis factor $\alpha$ production from macrophages in vitro was more pronounced if administered close to stimulation.[1]

## Solubility Information

Solubility	DMSO: Slightly soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.4396 mL	12.1978 mL	24.3956 mL
5 mM	0.4879 mL	2.4396 mL	4.8791 mL
10 mM	0.244 mL	1.2198 mL	2.4396 mL
50 mM	0.0488 mL	0.244 mL	0.4879 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

Hultqvist M, et al. Rabeximod reduces arthritis severity in mice by decreasing activation of inflammatory cells. *Ann Rheum Dis.* 2010;69(8):1527-1532.

Hultqvist M, et al. Rabeximod reduces arthritis severity in mice by decreasing activation of inflammatory cells. *Ann Rheum Dis.* 2010 Aug;69(8):1527-32.

Giusti P, et al. The novel anti-rheumatic compound Rabeximod impairs differentiation and function of human pro-inflammatory dendritic cells and macrophages. *Immunobiology.* 2011 Jan-Feb;216(1-2):243-50.

Hultqvist M, et al. The novel small molecule drug Rabeximod is effective in reducing disease severity of mouse models of autoimmune disorders. *Ann Rheum Dis.* 2009 Jan;68(1):130-5.

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