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产品名称: **2-CL-IB-MECA**  
产品别名: **Namodenoson; CF-102**

生物活性:				
Description	Namodenoson (CF-102) is a selective A3 adenosine receptor agonist ( $K_i = 0.33$ nM). Displays 2500- and 1400-fold selectivity over A1 and A2A receptors respectively.			
IC <sub>50</sub> & Target	K <sub>i</sub> :0.33 nM (A3 adenosine receptor)[1][2].			
In Vitro	In human ADF cells of astroglial lineage, 100 nM Namodenoson (2-Cl-IB-MECA) caused a marked reorganization of the cytoskeleton, with appearance of stress fibres and numerous cell protrusions. High concentrations of Namodenoson (2-Cl-IB-MECA) directly cause influx of Ca <sup>2+</sup> [2].			
In Vivo	Intravenous administration of 200 µg/kg Namodenoson (2-Cl-IB-MECA) resulted in a short-lasting hypotension, which was accompanied by a 50-100-fold increase in plasma histamine concentrations. Administration of a second dose of Namodenoson (2-Cl-IB-MECA) did not elicit any hemodynamic effects[1].			
Solvent&Solubility	<b>In Vitro:</b> <b>DMSO : ≥ 31 mg/mL (56.91 mM)</b>  * "≥" means soluble, but saturation unknown.			
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg
		1 mM	1.8358 mL	9.1789 mL
		5 mM	0.3672 mL	1.8358 mL
		10 mM	0.1836 mL	0.9179 mL
	*请根据产品在不同溶剂中的溶解度选择合适的溶剂配制储备液; 一旦配成溶液, 请分装保存, 避免反复冻融造成的产品失效。  储备液的保存方式和期限: -80℃, 6 months; -20℃, 1 month。 -80℃ 储存时, 请在 6 个月内使用, -20℃ 储存时, 请在 1 个月内使用。			
References	[1]. Van Schaick EA et al. Hemodynamic effects and histamine release elicited by the selective adenosine A3 receptor agonist 2-Cl-IB-MECA in conscious rats. Eur J Pharmacol. 1996 Jul 25;308(3):311-4.  [2]. Jacobson KA et al. Adenosine A3 receptors: novel ligands and paradoxical effects. Trends Pharmacol Sci. 1998 May;19(5):184-91.			