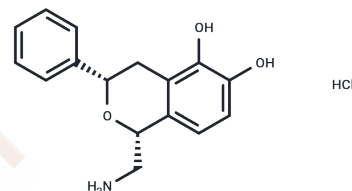


## A 68930 hydrochloride

## Chemical Properties

CAS No. :	130465-39-3
Formula:	C <sub>16</sub> H <sub>18</sub> ClNO <sub>3</sub>
Molecular Weight:	307.77
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	A 68930 hydrochloride is a selective dopamine D1 receptor agonist that ameliorates Aβ <sub>1-42</sub> -induced cognitive impairment and neuroinflammation in mouse models, highlighting its relevance to Alzheimer's disease research, and at concentrations of 10-50 μg/mL also inhibits gastric H <sup>+</sup> /K <sup>+</sup> -ATPase activity comparably to omeprazole, supporting multifunctional pharmacological investigations.
Targets(IC50)	Dopamine Receptor
In vitro	In NCI-H292 cells and primary human airway epithelial cells, treatment with A 68930 hydrochloride at a concentration of 10 μM rapidly induced the time-dependent phosphorylation of CREB and significantly upregulated the mRNA and protein expression of MUC5AC[1].

## Solubility Information

Solubility	DMSO: 80 mg/mL (259.93 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	3.2492 mL	16.2459 mL	32.4918 mL
5 mM	0.6498 mL	3.2492 mL	6.4984 mL
10 mM	0.3249 mL	1.6246 mL	3.2492 mL
50 mM	0.065 mL	0.3249 mL	0.6498 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

Matsuyama N, et al. The dopamine D1 receptor is expressed and induces CREB phosphorylation and MUC5AC expression in human airway epithelium. *Respir Res.* 2018;19(1):53. Published 2018 Apr 2.

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