

## **Product** Data Sheet

## A68930 hydrochloride

 Cat. No.:
 HY-103431

 CAS No.:
 130465-39-3

 Molecular Formula:
 C<sub>16</sub>H<sub>18</sub>ClNO<sub>3</sub>

 Molecular Weight:
 307.77

Target: Dopamine Receptor

Pathway: GPCR/G Protein; Neuronal Signaling
Storage: 4°C, sealed storage, away from moisture

\* In solvent: -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

## **BIOLOGICAL ACTIVITY**

Description	A68930 hydrochloride, as a dopamine D1 receptor agonist, can be used for the research of bronchiectasis <sup>[1]</sup> .		
IC <sub>50</sub> & Target	D <sub>1</sub> Receptor		
In Vitro	response element binding ( A68930 hydrochloride (1 μΝ MUC5AC and MUC5AC prote A68930 hydrochloride (1 μΝ	68930 hydrochloride (1 μM; 5-60 minutes; 16HBE140- or NCI-H292 cells) significantly increases phosphorylation of cAMP esponse element binding (CREB) protein <sup>[1]</sup> . 68930 hydrochloride (1 μM; 48 hours; NCI-H292 cells) induces MUC5AC mRNA expression and increases the mRNA data of UC5AC and MUC5AC protein expression <sup>[1]</sup> . 68930 hydrochloride (1 μM; 20 minutes; NCI-H292 cells) significantly increases intracellular cAMP levels <sup>[1]</sup> . 68930 hydrochloride (1 μM; 20 minutes; NCI-H292 cells) significantly increases on tracellular camp levels <sup>[1]</sup> . 68930 hydrochloride (1 μM; 20 minutes; NCI-H292 cells) significantly increases intracellular camp levels <sup>[1]</sup> . 68930 hydrochloride (1 μM; 20 minutes; NCI-H292 cells) significantly increases intracellular camp levels <sup>[1]</sup> . 68930 hydrochloride (1 μM; 20 minutes; NCI-H292 cells) significantly increases intracellular camp levels <sup>[1]</sup> .	
	Cell Line:	16HBE14o- or NCI-H292 cells	
	Concentration:	1 μΜ	
	Incubation Time:	5~60 minutes	
	Result:	Significantly increased phosphorylation of CREB.	
	$RT ext{-}PCR^{[1]}$		
	Cell Line:	NCI-H292 cells	
	Concentration:	1 μΜ	
	Incubation Time:	48 hours	
	Result: Induced MUC5AC mRNA expression.	Induced MUC5AC mRNA expression.	
	${\sf Immunofluorescence}^{[1]}$		
	Cell Line:	NCI-H292 cells	
	Concentration:	1 μΜ	

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Incubation Time:	48 hours
Result:	The mRNA data of MUC5AC, MUC5AC protein expression were increased.

## **REFERENCES**

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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