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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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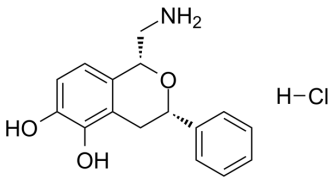
A68930 hydrochloride

Cat. No.:	HY-103431
CAS No.:	130465-39-3
Molecular Formula:	$C_{16}H_{18}ClNO_3$
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[1].
IC_{50} & Target	D_1 Receptor

In Vitro

A68930 hydrochloride (1 μM; 5-60 minutes; 16HBE14o- or NCI-H292 cells) significantly increases phosphorylation of cAMP response element binding (CREB) protein[1].
A68930 hydrochloride (1 μM; 48 hours; NCI-H292 cells) induces MUC5AC mRNA expression and increases the mRNA data of MUC5AC and MUC5AC protein expression[1].
A68930 hydrochloride (1 μM; 20 minutes; NCI-H292 cells) significantly increases intracellular cAMP levels[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis[1]

Cell Line:	16HBE14o- or NCI-H292 cells
Concentration:	1 μM
Incubation Time:	5~60 minutes
Result:	Significantly increased phosphorylation of CREB.

RT-PCR[1]

Cell Line:	NCI-H292 cells
Concentration:	1 μM
Incubation Time:	48 hours
Result:	Induced MUC5AC mRNA expression.

Immunofluorescence[1]

Cell Line:	NCI-H292 cells
Concentration:	1 μM

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.

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