Product Data Sheet

A68930

Molecular Weight: 271.31

Target: Dopamine Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: Please store the product under the recommended conditions in the Certificate of

Analysis.

BIOLOGICAL ACTIVITY

Description	A68930, as a dopamine D1 receptor agonist, can be used for the research of bronchiectasis ^[1] .		
IC ₅₀ & Target	D ₁ Receptor		
In Vitro	element binding (CREB) pr A68930 (1 μM; 48 hours; NO MUC5AC protein expressio A68930 (1 μM; 20 minutes;	0 (1 μ M; 20 minutes; NCI-H292 cells) significantly increases intracellular cAMP levels $^{[1]}$. as not independently confirmed the accuracy of these methods. They are for reference only.	
	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 μM	1μΜ	
	Incubation Time:	48 hours	
	Result:	Induced MUC5AC mRNA expression.	
	${\sf Immunofluorescence}^{[1]}$		
	Cell Line:	NCI-H292 cells	
	Concentration:	1 μΜ	

	
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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