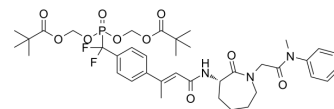


PM-43I

Cat. No.:	HY-148092		
CAS No.:	1637532-77-4		
Molecular Formula:	C ₃₈ H ₅₀ F ₂ N ₃ O ₁₀ P		
Molecular Weight:	777.79		
Target:	STAT		
Pathway:	JAK/STAT Signaling; Stem Cell/Wnt		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 35 mg/mL (45.00 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	1.2857 mL	6.4285 mL	12.8569 mL
5 mM	0.2571 mL	1.2857 mL	2.5714 mL
10 mM	0.1286 mL	0.6428 mL	1.2857 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

PM-43I is a potent STAT6 inhibitor and can reduce STAT6 phosphorylation level. PM-43I can be used in allergic lung disease, allergic rhinitis, chronic pulmonary obstructive disease and cancer research^[1].

In Vitro

PM-43I (0.05-5 μM; 2 h) inhibits IL-4 stimulated phosphorylation of STAT6 in Beas-2B immortalized human airway cells^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis^[1]

Cell Line:	Beas-2B immortalized human airway cells
Concentration:	0.05, 0.1, 0.5, 1, 2.5, 5 μM
Incubation Time:	2 h
Result:	Inhibited STAT6 phosphorylation level to 18%, 21% at 2.5 and 5 μM, respectively.

In Vivo

PM-43I (intranasal administration; 5 µg per mouse; every other day; 18 d) activity is restricted to the lung by intranasal administration^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Mice injected with Ovalbumin/Alum ^[1]
Dosage:	5 µg per mouse
Administration:	Intranasal administration; 5 µg per mouse; every other day; 18 days
Result:	Showed no effect on the sensitization of peripheral splenocytes to ovalbumin.

REFERENCES

[1]. John S. McMurray, et al. Stat6 inhibitors. WO2014182928A2.

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

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