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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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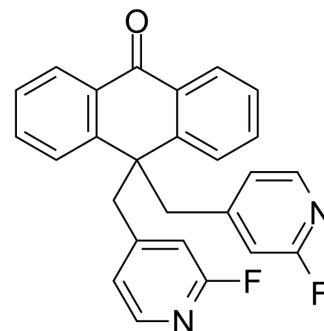
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DMP-543

Cat. No.:	HY-108590
CAS No.:	160588-45-4
Molecular Formula:	C ₂₆ H ₁₈ F ₂ N ₂ O
Molecular Weight:	412.43
Target:	Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
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 : 100 mg/mL (242.47 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	2.4247 mL	12.1233 mL	24.2465 mL
		5 mM	0.4849 mL	2.4247 mL	4.8493 mL
		10 mM	0.2425 mL	1.2123 mL	2.4247 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.5 mg/mL (6.06 mM); Suspended solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.5 mg/mL (6.06 mM); Suspended solution; Need ultrasonic				

BIOLOGICAL ACTIVITY

Description	DMP-543 (XR-543) is a K _v 7 channel blocker, also acts as a potent neurotransmitter release enhancer ^{[1][2]} .
IC ₅₀ & Target	K _v 7 channel
In Vitro	DMP-543 enhances [³ H]ACh release from rat brain slices, with an EC ₅₀ of 700 nM ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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- [1]. Ipavec V, et al. KV7 channels regulate muscle tone and nonadrenergic noncholinergic relaxation of the rat gastric fundus. *Pharmacol Res.* 2011 Oct;64(4):397-409.
- [2]. Zaczek R, et al. Two new potent neurotransmitter release enhancers, 10,10-bis(4-pyridinylmethyl)-9(10H)-anthracenone and 10,10-bis(2-fluoro-4-pyridinylmethyl)-9(10H)-anthracenone: comparison to linopirdine. *J Pharmacol Exp Ther.* 1998 May;285(2):724-30.
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Caution: Product has not been fully validated for medical applications. For research use only.

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