## DMP-543

Cat. No.:	HY-108590			
CAS No.:	160588-45-4	4		
Molecular Formula:	C <sub>26</sub> H <sub>18</sub> F <sub>2</sub> N <sub>2</sub> 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

	Solvent Mass Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	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 so	efer to the solubility information to select the appropriate solvent.			
n Vivo		one by one: 10% DMSO >> 40% PEC mL (6.06 mM); Suspended solution;		0 >> 45% saline	
	one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) /mL (6.06 mM); Suspended solution; Need ultrasonic				

BIOLOGICAL ACTIV	ТТ
Description	DMP-543 (XR-543) is a $K_V7$ channel blocker, also acts as a potent neurotransmitter release enhancer <sup>[1][2]</sup> .
IC <sub>50</sub> & Target	K <sub>V</sub> 7 channel
In Vitro	DMP-543 enhances [ <sup>3</sup> H]ACh release from rat brain slices, with an EC <sub>50</sub> of 700 nM <sup>[2]</sup> . 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.

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

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