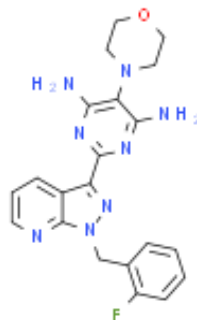


## Product Data Sheet

Cas No.:	256498-66-5	Cat. No:	PC15329
Product Name:	BAY 41-8543		
Product synonym:	2-[1-[(2-氟苯基)甲基]-1H-吡唑并[3,4-B]吡啶-3-基]-5-(4-吗啉基)-4,6-嘧啶二胺;化合物BAY 41-8543		
Chemical name:	BAY 41-8543		
MF:	C21H21N8OF	FW:	420.443
Purity:	≥98%	Batch No.:	-
Storage:			
Structural formula:			
λmax:	-	Formulation:	-
Solubility :			
SMILES :	FC1=C(C=CC=C1)CN2N=C(C3=CC=CN=C32)C4=NC(N)=C(C(N)=N4)N5CCOCC5		
InChI Code:	-		
InChI Key:			
WARNING This product is not for human or veterinary use.			

## Product Description

可溶性鸟苷酸环化酶（sGC）的血红素依赖性刺激剂，BAY 41-8543 is an NO-independent sGC (soluble guanylyl cyclase) stimulator, inhibits collagen-mediated aggregation in washed human platelets (IC50=90 nM).

### 生物活性

BAY 41-8543 is an orally active, nitric oxide (NO)-independent stimulator of **soluble guanylyl cyclase (sGC)**. BAY 41-8543 has vasodilator activity in the pulmonary and systemic vascular beds in the rat. BAY 41-8543 has antiplatelet effects and has the potential for cardiovascular diseases research.

体内研究(In Vivo)	<p>BAY 41-8543 (10-100 μg/kg; IV) produces small decreases in pulmonary arterial pressure, larger dose-dependent decreases in systemic arterial pressure, and increases in cardiac output.</p> <p>BAY 41-8543 (0.003, 0.01, 0.03, 0.1, and 0.3mg/kg; iv) produces a dose-dependent and long-lasting decrease in blood pressure in anaesthetized rats. The blood pressure lowering effect of BAY 41-8543 lasts longer than the observation period of 30?min.</p> <p>BAY 41-8543 (0.1, 0.3 and 1.0mg?kg; oral) has maximal blood pressure lowering effects. The blood pressure lowering effects of the highest doses of BAY41-8543 lasts longer than the observation period of 120?min.</p> <p>BAY 41-8543 (3?mg/kg; p.o.; twice daily; for 5 weeks) completely prevents the development of the increase in systolic blood pressure in 18-week-old renin transgenic rats (TGR(mRen2)27) on L-NAME treatment. BAY 41-8543 dramatically increases survival.</p> <p><b>Medlife has not independently confirmed the accuracy of these methods. They are for reference only.</b></p> <table><tr><td>Animal Model:</td><td colspan="4">Adult male Sprague-Dawley rats weighing 325-450 g</td></tr><tr><td>Dosage:</td><td colspan="4">10, 30, and 100 μg/kg</td></tr><tr><td>Administration:</td><td colspan="4">IV</td></tr><tr><td>Result:</td><td colspan="4">Produced small decreases in pulmonary arterial pressure, larger dose-dependent decreases in systemic arterial</td></tr></table>					Animal Model:	Adult male Sprague-Dawley rats weighing 325-450 g				Dosage:	10, 30, and 100 μg/kg				Administration:	IV				Result:	Produced small decreases in pulmonary arterial pressure, larger dose-dependent decreases in systemic arterial										
Animal Model:	Adult male Sprague-Dawley rats weighing 325-450 g																															
Dosage:	10, 30, and 100 μg/kg																															
Administration:	IV																															
Result:	Produced small decreases in pulmonary arterial pressure, larger dose-dependent decreases in systemic arterial																															
包装储存	<table><tr><td>Powder</td><td>-20°C</td><td>3 years</td></tr><tr><td></td><td>4°C</td><td>2 years</td></tr><tr><td>In solvent</td><td>-80°C</td><td>6 months</td></tr><tr><td></td><td>-20°C</td><td>1 month</td></tr></table>	Powder	-20°C	3 years		4°C	2 years	In solvent	-80°C	6 months		-20°C	1 month																			
Powder	-20°C	3 years																														
	4°C	2 years																														
In solvent	-80°C	6 months																														
	-20°C	1 month																														
溶解度数据	<p><b>体外研究:</b></p> <p><b>DMF : 16.67 mg/mL (39.65 mM; Need ultrasonic)</b></p> <p><b>Ethanol : 1 mg/mL (2.38 mM; ultrasonic and warming and heat to 70°C)</b></p> <p><b>DMSO : &lt; 1 mg/mL (ultrasonic;warming;heat to 60°C)</b> (insoluble or slightly soluble)</p> <table><tr><td rowspan="4">配制储备溶液</td><td>溶剂体积</td><td>质量</td><td>1 mg</td><td>5 mg</td><td>10 mg</td></tr><tr><td>浓度</td><td></td><td></td><td></td><td></td></tr><tr><td>1 mM</td><td></td><td>2.3785 mL</td><td>11.8923 mL</td><td>23.7846 mL</td></tr><tr><td>5 mM</td><td></td><td>0.4757 mL</td><td>2.3785 mL</td><td>4.7569 mL</td></tr><tr><td></td><td>10 mM</td><td></td><td>0.2378 mL</td><td>1.1892 mL</td><td>2.3785 mL</td></tr></table> <p>* 产品不同，其溶解度不同。建议根据产品选择合适的溶剂配制储备溶液；配成溶液后，建议分装保存，避免反复冻融造成的产品失效。</p> <p>储备液的保存方式和期限：-80°C, 6 months; -20°C, 1 month。-80°C 储存时，建议在 6 个月内使用，-20°C 储存时，建议在 1 个月内使用。</p>					配制储备溶液	溶剂体积	质量	1 mg	5 mg	10 mg	浓度					1 mM		2.3785 mL	11.8923 mL	23.7846 mL	5 mM		0.4757 mL	2.3785 mL	4.7569 mL		10 mM		0.2378 mL	1.1892 mL	2.3785 mL
配制储备溶液	溶剂体积	质量	1 mg	5 mg	10 mg																											
	浓度																															
	1 mM		2.3785 mL	11.8923 mL	23.7846 mL																											
	5 mM		0.4757 mL	2.3785 mL	4.7569 mL																											
	10 mM		0.2378 mL	1.1892 mL	2.3785 mL																											