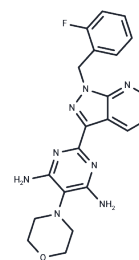


BAY 41-8543

## Chemical Properties

CAS No. : 256498-66-5  
 Formula: C<sub>21</sub>H<sub>21</sub>FN<sub>8</sub>O  
 Molecular Weight: 420.44  
 Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year  
 Actual storage temperature shall be subject to the COA.



## Biological Description

Description	BAY 41-8543 is a nitric oxide (NO)-independent stimulator of soluble guanylyl cyclase (sGC).
Targets(IC50)	Guanylate cyclase
In vivo	BAY 41-8543 has similar vasodilator activity in the pulmonary and systemic vascular beds in the rat[1].

## Solubility Information

Solubility	DMSO: insoluble or slightly soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.0476 mL	0.2378 mL	0.4757 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Badejo A M , Nossaman V E , Pankey E A , et al. Pulmonary and systemic vasodilator responses to the soluble guanylyl cyclase stimulator, BAY 41-8543, are modulated by nitric oxide.[J]. American Journal of Physiology: Heart & Circulatory Physiology, 2010, 68(4):H1153-H16159.

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