# Data Sheet (Cat.No.TN1985)



## Neoprzewaquinone A

Chemical Properties				
CAS No. :	630057-39-5			
Formula:	C36H28O6			
Molecular Weight:	$556.6$ $\bigcirc$ $\checkmark$			
Appearance: 🦲	no data available			
	keep away from direct sunlight,keep away from			
Storage:	moisture			
	Powder: -20°C for 3 years   In solvent: -80°C for 1 year			

Biological Description				
Description	Neoprzewaquinone A (NEO), an active ingredient of S. miltiorrhiza, inhibits breast cancer cell migration and promotes smooth muscle relaxation by targeting PIM1 and blocking the ROCK2/STAT3 pathway.			
Targets(IC50)	ROCK,Pim,STAT			
In vitro	The active ingredient Neoprzewaquinone A (NEO) in crocetin selectively inhibits PIM1,a phenomenon observed at nanomolar concentrations. NEO effectively inhibits the PIM1 kinase and significantly suppresses the growth, migration, and epithelial-mesenchymal transition (EMT) of the triple-negative breast cancer cell line MDA-MB-231 in vitro [1].			

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7966 mL	8.9831 mL	17.9662 mL
5 mM	0.3593 mL	1.7966 mL	3.5932 mL
10 mM	0.1797 mL	0.8983 mL	1.7966 mL
50 mM	0.0359 mL	0.1797 mL	0.3593 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.

### Reference

Zhao G, et al. Neoprzewaquinone A Inhibits Breast Cancer Cell Migration and Promotes Smooth Muscle Relaxation by Targeting PIM1 to Block ROCK2/STAT3 Pathway. Int J Mol Sci. 2023 Mar 13;24(6):5464.

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