

PT-1

## Chemical Properties

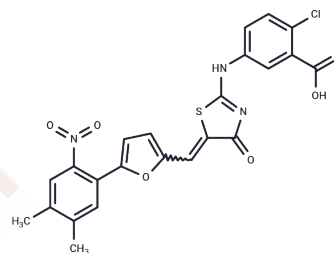
CAS No. : 331002-70-1

Formula: C<sub>23</sub>H<sub>16</sub>ClN<sub>3</sub>O<sub>6</sub>S

Molecular Weight: 497.91

Storage: Store at low temperature, Keep away from moisture  
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	PT-1 is an AMPK $\alpha$ 1 activator that dose-dependently activates AMPK $\alpha$ 1394, $\alpha$ 1335, and $\alpha$ 2398 and enhances AMPK phosphorylation.
Targets(IC <sub>50</sub> )	AMPK

## Solubility Information

Solubility	DMSO: 16 mg/mL (32.13 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0084 mL	10.042 mL	20.084 mL
5 mM	0.4017 mL	2.0084 mL	4.0168 mL
10 mM	0.2008 mL	1.0042 mL	2.0084 mL
50 mM	0.0402 mL	0.2008 mL	0.4017 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

Pang T, et al. Small molecule antagonizes autoinhibition and activates AMP-activated protein kinase in cells. J Biol Chem. 2008 Jun 6;283(23):16051-60.

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