

ML-090

## Chemical Properties

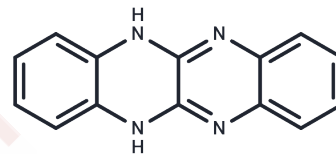
CAS No. : 531-46-4

Formula: C<sub>14</sub>H<sub>10</sub>N<sub>4</sub>

Molecular Weight: 234.26

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	ML-090 is NOX1-specific inhibitor (IC <sub>50</sub> = 90 nM) which is >100 selectivity for NOX1 over NOX2, NOX3, NOX4 (all IC <sub>50</sub> s >10 μM).
Targets(IC <sub>50</sub> )	NADPH, NADPH-oxidase
In vitro	In HEK293 cells, ML-090 has an IC <sub>50</sub> of 360 nM[1].

## Solubility Information

Solubility	DMSO: < 1 mg/mL (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	4.2688 mL	21.3438 mL	42.6876 mL
5 mM	0.8538 mL	4.2688 mL	8.5375 mL
10 mM	0.4269 mL	2.1344 mL	4.2688 mL
50 mM	0.0854 mL	0.4269 mL	0.8538 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

Brown SJ, et al. Probe Report for NOX1 Inhibitors. 2009 Apr 23 [updated 2010 Sep 2]. In: Probe Reports from the NIH Molecular Libraries Program [Internet]. Bethesda (MD): National Center for Biotechnology Information (US); 2010-.

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