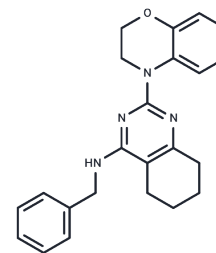


ML241

## Chemical Properties

CAS No. : 1346528-06-0  
 Formula: C<sub>23</sub>H<sub>24</sub>N<sub>4</sub>O  
 Molecular Weight: 372.46  
 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	ML241 is a potent and selective inhibitors of p97 ATPase.
Targets(IC50)	p97
Kinase Assay	EPZ015666 is serially diluted threefold from 1,000 to 0.051 nM and spotted into a 384-well polypropylene V-bottom microplate. 3H-SAM is serially diluted twofold in assay buffer for a seven-point dilution series with a top concentration of 700 nM (final assay concentration). Reactions are initiated by the addition of 4 nM enzyme and 40 nM peptide (final assay concentrations for both). Reactions are incubated for 60 min and quenched by the addition of 10 µL per well of 600 µM unlabeled SAM in assay buffer (final assay concentration). For the peptide competition, EPZ015666 is serially diluted threefold from 1,000 to 0.051 nM and spotted into a 384-well polypropylene V-bottom microplate. Peptide is serially diluted twofold in assay buffer for a seven-point dilution series with a top concentration of 480 nM (final assay concentration). Reactions are initiated by the addition of 4 nM enzyme and 75 nM 3H-SAM (final assay concentrations for both). Reactions are incubated for 60 min, and the reactions are quenched by the addition of 10 µL per well of 600 µM unlabeled SAM in assay buffer (final assay concentration)[1].

## Solubility Information

Solubility	DMSO: 10 mM, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 1 mg/mL (2.68 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.6849 mL	13.4243 mL	26.8485 mL
5 mM	0.537 mL	2.6849 mL	5.3697 mL
10 mM	0.2685 mL	1.3424 mL	2.6849 mL
50 mM	0.0537 mL	0.2685 mL	0.537 mL

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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

Chou TF, et al. ChemMedChem. 2013 Feb;8(2):297-312.

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