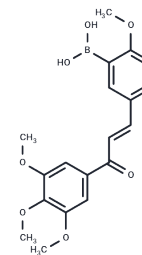


YK-3-237

Chemical Properties

CAS No. : 1215281-19-8
 Formula: C₁₉H₂₁BO₇
 Molecular Weight: 372.18
 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	YK-3-237 (B-[2-Methoxy-5-[(1E)-3-oxo-3-(3,4,5-trimethoxyphenyl)-1-propen-1-yl]phenyl]boronic acid) reduces acetylation of mtp53 and exhibits anti-proliferative effects toward triple-negative breast cancer (TNBC) cells carrying mtp53.
Targets(IC50)	Sirtuin
In vitro	YK-3-237 activates SIRT1 enzyme activities in vitro and deacetylation of both mtp53 in a SIRT1-dependent manner.

Solubility Information

Solubility	DMF: 30 mg/mL (80.61 mM),Sonication is recommended. Ethanol: 10 mg/mL (26.87 mM),Sonication is recommended. DMSO: 30 mg/mL (80.61 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: 2 mg/mL (5.37 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

	1mg	5mg	10mg
1 mM	2.6869 mL	13.4344 mL	26.8687 mL
5 mM	0.5374 mL	2.6869 mL	5.3737 mL
10 mM	0.2687 mL	1.3434 mL	2.6869 mL
50 mM	0.0537 mL	0.2687 mL	0.5374 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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