

## Bis-T-23

## Chemical Properties

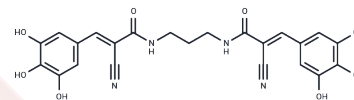
CAS No. : 171674-76-3

Formula: C<sub>23</sub>H<sub>20</sub>N<sub>4</sub>O<sub>8</sub>

Molecular Weight: 480.43

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	Bis-T-23 is a promoter of actin-dependent dynamin oligomerization, an HIV-1 integrase inhibitor, and a Telstar derivative. Bis-T-23 promotes actin-dependent dynamin oligomerization. Bis-T-23 can be used in studies of HIV and chronic kidney disease (CKD).
Targets(IC50)	HIV Protease,Dynamin
In vitro	Bis-T-23 (AG1717) (0.18 μM) inhibits HIV-1 integrase and, at a concentration of 2 μM, AG1717 also inhibits the binding of integrase to substrate DNA.[5]
In vivo	Bis-T-23 (1 ng) targets actin-dependent kinesin oligomerization in podocytes to promote normal GFB function. Bis-T-23 (i.p.; 20, 40 mg/kg) improves proteinuria by altering actin kinetics and reduces thylakoid matrix expansion in various genetic and chronic glomerular disease models in rodents.[6]

## Solubility Information

Solubility	H <sub>2</sub> O: Insoluble DMSO: 12.01 mg/mL (25 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 8.17 mg/mL (17.01 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 8.17 mg/mL (17.01 mM),Solution. <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	2.0815 mL	10.4073 mL	20.8147 mL
5 mM	0.4163 mL	2.0815 mL	4.1629 mL
10 mM	0.2081 mL	1.0407 mL	2.0815 mL
50 mM	0.0416 mL	0.2081 mL	0.4163 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

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