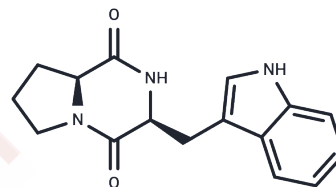


## Brevianamide F

## Chemical Properties

CAS No. :	38136-70-8
Formula:	C <sub>16</sub> H <sub>17</sub> N <sub>3</sub> O <sub>2</sub>
Molecular Weight:	283.33
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	Brevianamide F (Cyclo(L-Pro-L-Trp)), also known as cyclo-(L-Trp-L-Pro), is a naturally occurring 2,5-diketopiperazine with notable breast cancer resistance protein inhibitory activity.
Targets(IC50)	BCRP, Antibacterial, PI3K

## Solubility Information

Solubility	DMSO: 50 mg/mL (176.47 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 (7.06 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	3.5295 mL	17.6473 mL	35.2945 mL
5 mM	0.7059 mL	3.5295 mL	7.0589 mL
10 mM	0.3529 mL	1.7647 mL	3.5295 mL
50 mM	0.0706 mL	0.3529 mL	0.7059 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

Borthwick AD. Chemical Reviews. 2012. 112 (7): 3641-3716.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481