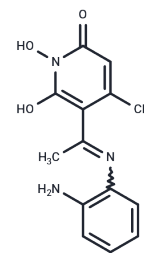


SUN B8155

## Chemical Properties

CAS No. : 345893-91-6  
 Formula: C<sub>14</sub>H<sub>15</sub>N<sub>3</sub>O<sub>3</sub>  
 Molecular Weight: 273.29  
 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	SUN B8155 is a calcitonin (CT) receptor agonist that selectively mimics the biological effects of calcitonin and induces cAMP formation in cells expressing recombinant human CT receptor.
Targets(IC50)	CGRP Receptor
In vitro	SUN B8155 (1-1000 µM, 1 hr treatment) promoted intracellular cAMP production in a concentration-dependent manner in T47D cells, with cAMP levels increasing approximately 42-fold at the highest concentration. The compound also increased cAMP production in the UMR106-06 cell line derived from rat osteogenic sarcoma. In CHO/hPTHr or CHO parental cells, SUN B8155 was unable to trigger cAMP production. However, in CHO/hCTR cells, SUN B8155 significantly enhanced cAMP generation in a concentration-dependent manner with an EC <sub>50</sub> of 21 µM. [1]
In vivo	Intraperitoneal injection of SUN B8155 (100 mg/kg) resulted in a significant decrease in serum calcium concentration of approximately 9% at 30 minutes post-dose.[1]

## Solubility Information

Solubility	DMSO: 80 mg/mL (292.73 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: 3.3 mg/mL (12.08 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	3.6591 mL	18.2956 mL	36.5912 mL
5 mM	0.7318 mL	3.6591 mL	7.3182 mL
10 mM	0.3659 mL	1.8296 mL	3.6591 mL
50 mM	0.0732 mL	0.3659 mL	0.7318 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

Katayama T, et al. Discovery of a non-peptide small molecule that selectively mimics the biological actions of calcitonin. *Biochim Biophys Acta*. 2001 May 3;1526(2):183-90.

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