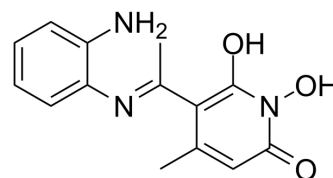


## SUN B8155

<b>Cat. No.:</b>	HY-103302	
<b>CAS No.:</b>	345893-91-6	
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>15</sub> N <sub>3</sub> O <sub>3</sub>	
<b>Molecular Weight:</b>	273.29	
<b>Target:</b>	CGRP Receptor	
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling	
<b>Storage:</b>	Powder	-20°C 3 years 4°C 2 years
	In solvent	-80°C 6 months -20°C 1 month



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 100 mg/mL (365.91 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
<b>Preparing Stock Solutions</b>	<b>1 mM</b>	3.6591 mL	18.2956 mL	36.5912 mL
	<b>5 mM</b>	0.7318 mL	3.6591 mL	7.3182 mL
	<b>10 mM</b>	0.3659 mL	1.8296 mL	3.6591 mL
Please refer to the solubility information to select the appropriate solvent.				
<b>In Vivo</b>	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (9.15 mM); Clear solution			

### BIOLOGICAL ACTIVITY

<b>Description</b>	SUN B8155, a non-peptide agonist of calcitonin (CT) receptor, selectively mimics the biological actions of calcitonin. Calcitonin, a 32-amino acid peptide hormone secreted mainly from the thyroid gland, plays an important role in maintaining bone homeostasis <sup>[1]</sup> .
<b>In Vitro</b>	SUN B8155 (1-1000 μM; 1 hour) stimulates intracellular cAMP formation in T47D cells in a concentration-dependent manner; the concentration of synthesized cAMP increased by approximately 42-fold at the highest concentration. SUN B8155 also stimulates cAMP formation in the rat osteogenic sarcoma-derived cell line, UMR106-06 <sup>[1]</sup> . SUN B8155 does not stimulate cAMP formation in CHO/hPTHr or parental CHO cells, but fully stimulates cAMP formation in CHO/hCTR cells in a concentration-dependent manner with an EC <sub>50</sub> of 21 μM <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	SUN B8155 (100 mg/kg; i.p.) results in a significant reduction of serum calcium concentration by approximately 9% at 30 min

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after administration. Human CT also reduces serum calcium in a dose-dependent manner at 30 min (0.1 and 0.3 µg/kg) and 60 min (0.3 µg/kg) after administration<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Katayama T, et al. Discovery of a non-peptide small molecule that selectively mimics the biological actions of calcitonin. *Biochim Biophys Acta*. 2001;1526(2):183-190.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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