

## BMP agonist 2

## Chemical Properties

CAS No. : 1438900-88-9

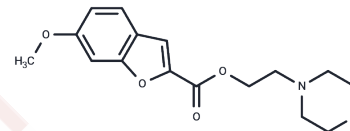
Formula: C<sub>16</sub>H<sub>19</sub>NO<sub>5</sub>

Molecular Weight: 305.33

Store at low temperature

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	BMP agonist 2 has up-regulated bone morphogenetic protein BMP-2 expression activity in vivo and anti-osteoporosis effects, and also has ameliorated the symptoms of osteoporosis in SAMP6 mice. BMP agonist 2 is an osteoinductive cytokine that promotes the production of bone tissue, and can be used in the study of senile osteoporosis (SOP).
Targets(IC50)	Others, TGF-beta/Smad

## Solubility Information

Solubility	DMSO: 80 mg/mL (262.01 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: 3.3 mg/mL (10.81 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	3.2751 mL	16.3757 mL	32.7514 mL
5 mM	0.655 mL	3.2751 mL	6.5503 mL
10 mM	0.3275 mL	1.6376 mL	3.2751 mL
50 mM	0.0655 mL	0.3275 mL	0.655 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

Zhou Z, et al. Efficacy, Mechanism, and Structure-Activity Relationship of 6-Methoxy Benzofuran Derivatives as a Useful Tool for Senile Osteoporosis[J]. Journal of Medicinal Chemistry, 2023, 66(3): 1742-1760.

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