

Product Data Sheet

Product Name: BMP agonist 2

Cat. No.: GC73797

Chemical Properties

Cas. No. 1438900-88-9

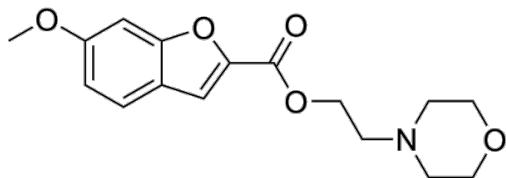
Formula $C_{16}H_{19}NO_5$ M.Wt 305.33

Solubility DMSO : 100 mg/mL (327.51 mM; Storage -20°C
Need ultrasonic)

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



Background

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

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BMP agonist 2 (derivative I-9) is a potent bone-inducing cytokine. BMP agonist 2 promotes bone tissue production by increasing the proportion and activity of osteoblasts. BMP agonist 2 promotes osteoblast proliferation and differentiation through the BMP2-ATF4 signaling axis, in which ATF4 is a transcription factor closely related to osteoblast differentiation and bone formation. BMP agonist 2 can be used in the study of senile osteoporosis (SOP).

References:

[1]. 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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