

Product Name: GS-5759
Cat. No.: GC79301

Cas. No. 1346653-91-5

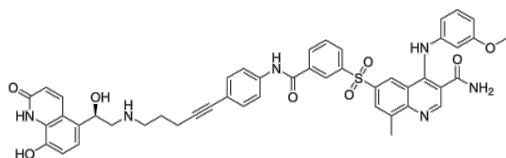
Formula	C ₄₇ H ₄₂ N ₆ O ₈ S	M.Wt	850.94
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Solubility	DMSO: 100 mg/mL (117.52 mM; Need ultrasonic)	Storage	Store at -20°C, stored under nitrogen
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General tips	For obtaining a higher solubility , please 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.
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Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.
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Structure



GS-5759 is both a β_2 -adrenergic receptor agonist and a PDE4 inhibitor. GS-5759 increases intracellular cAMP levels by activating the β_2 receptor, promoting bronchial dilation. GS-5759 inhibits PDE4 activity, reduces cAMP degradation, and enhances anti-inflammatory effects. GS-5759 exhibits

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

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Product Data Sheet

potent bronchial dilation and anti-inflammatory capabilities in animal models. GS-5759 can be used for research on respiratory diseases such as chronic obstructive pulmonary disease (COPD) [1] [2].

References:

- [1]. Joshi T, et al. GS-5759, a Bifunctional β 2-Adrenoceptor Agonist and Phosphodiesterase 4 Inhibitor for Chronic Obstructive Pulmonary Disease with a Unique Mode of Action: Effects on Gene Expression in Human Airway Epithelial Cells. J Pharmacol Exp Ther. 2017 Feb;360(2):324-340.
- [2]. Salmon M, et al. The in vivo efficacy and side effect pharmacology of GS-5759, a novel bifunctional phosphodiesterase 4 inhibitor and long-acting β 2-adrenoceptor agonist in preclinical animal species. Pharmacol Res Perspect. 2014 Aug;2(4):e00046.

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