

FOXJ1 agonist 1

Chemical Properties

CAS No. :

Formula: C₂₄H₂₇N₅O₃

Molecular Weight: 433.5

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	FOXJ1 agonist 1 (compound 16c), an orally effective small molecule, effectively enhances FOXJ1 expression and acts on multiciliated cells (MCC) in the mammalian airway system to prevent chronic obstructive pulmonary disease (COPD). Foxj1-IN-1 induces motile cilia production in the respiratory system of both zebrafish and mammals and inhibits elastase-induced COPD in mouse models. Additionally, Foxj1-IN-1 demonstrates good liver microsomal stability and favorable in vivo pharmacokinetic (PK) curves and area under the curve (AUC). It exhibits negligible inhibition of CYP and hERG and lacks significant cytotoxicity.
Targets(IC50)	Others,NF-κB,FOXO

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3068 mL	11.534 mL	23.0681 mL
5 mM	0.4614 mL	2.3068 mL	4.6136 mL
10 mM	0.2307 mL	1.1534 mL	2.3068 mL
50 mM	0.0461 mL	0.2307 mL	0.4614 mL

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.

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