

Product Data Sheet

Product Name: Icenticaftor

Cat. No.: GC63353

Chemical Properties

Cas. No. 1334546-77-8

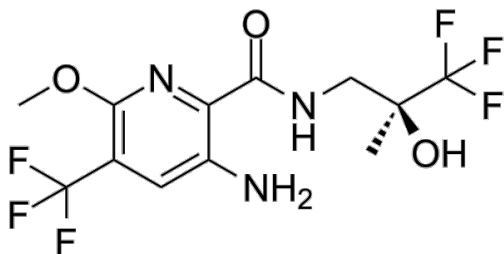
Formula $C_{12}H_{13}F_6N_3O_3$ M.Wt 361.24

Solubility DMSO : 150 mg/mL (415.24 mM; ultrasonic and warming and heat to 60°C) Storage Store at -20°C

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

Icenticaftor (QBW251) is an orally active CFTR channel potentiator, with EC₅₀s of 79 nM and 497 nM for F508del and G551D CFTR, respectively. Icenticaftor can be used for chronic obstructive pulmonary disease (COPD) and cystic fibrosis research[1].

Icenticaftor (QBW251), an orally bioavailable small molecule CFTR potentiator, can restore CFTR function in specific CFTR genotypes as well as wild-type CFTR[2].

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

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In Sprague-Dawley rats, the pharmacokinetic profile of Icenticaftor is established. After oral administration at a dose of 3 mg/kg, the oral bioavailability is 90%, and AUC_{last} is 207635 nmol/L•h[1].

[1]. Darren Le Grand, et al. Discovery of Icenticaftor (QBW251), a Cystic Fibrosis Transmembrane Conductance Regulator Potentiator with Clinical Efficacy in Cystic Fibrosis and Chronic Obstructive Pulmonary Disease. J Med Chem. 2021 Jun 10;64(11):7241-7260.

[2]. Steven M Rowe, et al. Efficacy and Safety of the CFTR Potentiator Icenticaftor (QBW251) in COPD: Results from a Phase 2 Randomized Trial. Int J Chron Obstruct Pulmon Dis. 2020 Oct 5;15:2399-2409.

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