

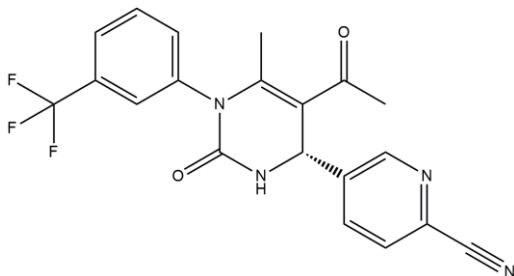
BAY-677

07/20

ALTERNATE NAMES: 5-[(6S)-5-acetyl-4-methyl-2-oxo-3-[3-(trifluoromethyl)phenyl]-1,6-dihydropyrimidin-6-yl]pyridine-2-carbonitrile; 5-[(4S)-5-Acetyl-1,2,3,4-tetrahydro-6-methyl-2-oxo-1-[3-(trifluoromethyl)phenyl]-4-pyrimidinyl]-2-pyridinecarbonitrile

CATALOG #: B3060-5 5 mg
B3060-25 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₀H₁₅F₃N₄O₂

MOLECULAR WEIGHT: 400.35

CAS NUMBER: 2117404-84-7

APPEARANCE: Yellow solid

PURITY: ≥97%

SOLUBILITY: ~20 mg/ml in DMSO

DESCRIPTION: BAY-677 is a negative control for BAY-678. BAY-678 is a potent, selective and cell-permeable inhibitor of human neutrophil elastase (HNE) with an IC₅₀ of 20 nM. The S-enantiomer BAY-677 inhibits HNE with IC₅₀>2000 nM.

STORAGE TEMPERATURE: -20°C

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCES:

1. von Nussbaum, F., Li, V. M.-J., Allerheiligen, S., et al. Freezing the Bioactive Conformation to Boost Potency: The Identification of BAY 85-8501, a Selective and Potent Inhibitor of Human Neutrophil Elastase for Pulmonary Diseases. *Chem. Med. Chem.*, 10, 1163 – 1173 (2015).
2. <https://www.thesgc.org/chemical-probes/BAY-678>

RELATED PRODUCTS:

Elastase Inhibitor (Cat. No. 1922)
 Elastase Inhibitor, SPCK (Cat. No. 1921)
 Elastase Substrate, Fluorogenic (Cat. No. 1975)
 Sivelestat (Cat. No. B2144)
 Alvelestat (Cat. No. B1653)

DISCLAIMER: *FOR RESEARCH USE ONLY! Not to be used on humans.*