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**Product Data Sheet**

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Product Name: BAY-677  
Cat. No.: GC30619

**Chemical Properties**

Cas. No. 2117404-84-7

SMILES N#CC1=NC=C([C@@H](C(C(C)=O)=C(C)N2C3=CC=CC(C(F)(F)F)=C3)NC2=O)C=C1

Formula  $C_{20}H_{15}F_3N_4O_2$  M.Wt 400.35

Solubility DMSO :  $\geq 50$  mg/mL (124.89 mM) Storage Store at  $-20^{\circ}C$

General tips For obtaining a higher solubility , please warm the tube at  $37^{\circ}C$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^{\circ}C$  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**

BAY-677 is an inactive control for BAY-678. BAY-678 is an orally bioavailable, highly potent, selective and cell-permeable inhibitor of human neutrophil elastase (HNE), with an  $IC_{50}$  of 20 nM[1]. BAY-678 is also nominated as a chemical probe to the public via the Structural Genomics Consortium (SGC)[2].

[1]. von Nussbaum F, 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. ChemMedChem. 2015 Jul;10(7):1163-73.. [2]. von Nussbaum F, et al. Neutrophil elastase inhibitors for the treatment of (cardio)pulmonary diseases: Into clinical testing with pre-adaptive pharmacophores. Bioorg Med Chem Lett. 2015 Oct 15;25(20):4370-81.

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

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