

Product Data Sheet

Product Name: CAY10640

Cat. No.: GC18887

Chemical Properties

Cas. No. 1208549-68-1

Chemical Name N-[1-(cyclopropylcarbonyl)-4-piperidiny]-N'-[4-(trifluoromethoxy)phenyl]-urea

SMILES O=C(NC1CCN(C(C2CC2)=O)CC1)NC3=CC=C(OC(F)(F)F)C=C3

Formula $C_{17}H_{20}F_3N_3O_3$ M.Wt 371.4

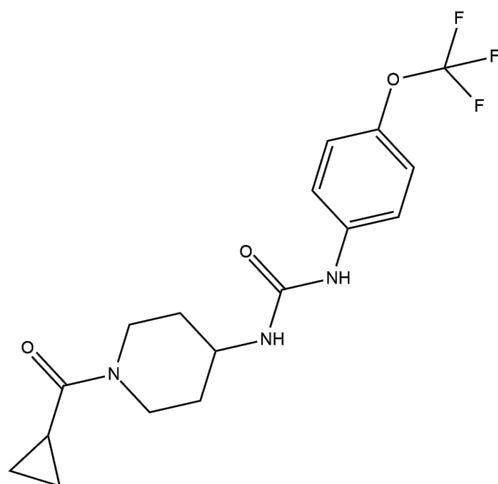
Solubility DMF: 5 mg/ml, DMSO: 5 mg/ml, DMSO:PBS(pH7.2) (1:1): 0.5 mg/ml, Ethanol: 2 mg/ml, PBS (pH 7.2): Insoluble

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

Soluble epoxide hydrolase (sEH) inhibitors have important therapeutic use by increasing the in vivo concentration of EETs and other fatty acid epoxides, resulting in anti-inflammatory, antihypertensive,

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neuroprotective, and cardioprotective effects. CAY10640 is a 1-aryl-3-(1-acylpiperidin-4-yl)urea analog that inhibits recombinant human and mouse sEH with IC₅₀ values both equal to 0.4 nM. CAY10640 demonstrates a 1,000-fold increase in potency compared to morphine in reducing hyperalgesia in an in vivo carrageenan-induced inflammatory pain model.

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