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**Product Data Sheet**


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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=C3Formula  $C_{17}H_{20}F_3N_3O_3$ 

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

Store  
Storage 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, 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.

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

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