
Product Data Sheet

Product Name: CAY10662

Cat. No.: GC18879

Chemical Properties

Cas. No. 1184844-74-3

Chemical Name 16-[[[(ethylamino)carbonyl]amino]-11Z-hexadecenoic acid

SMILES CCNC(NCCCC/C=C\CCCCCCCCC(O)=O)=OFormula $C_{19}H_{36}N_2O_3$ M.Wt 340.5

Solubility DMF: 5 mg/ml, DMF:PBS (pH 7.2) (1:4): 0.2 mg/ml, DMSO: 3 mg/ml, Ethanol: 2 mg/ml 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**

17(R),18(S)-Epoxyeicosatetraenoic acid (17(R),18(S)-EpETE), a natural cytochrome P450 epoxygenase metabolite of eicosapentaenoic acid, is known to reduce the contraction rate of spontaneously beating heart cells and to protect neonatal rat cardiomyocytes against arrhythmias induced by β -adrenergic agonists ($EC_{50} = \sim 1-2$ nM). CAY10662 is a 1,3 disubstituted urea derivative of 17(R),18(S)-EpETE that is more metabolically robust and reduces the contractility of cardiomyocytes with improved potency (EC_{50} fold higher than required for the effect on cardiomyocytes, 1-5 μ M CAY10662 exerts weak dose-dependent soluble epoxide hydrolase inhibition).

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

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