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Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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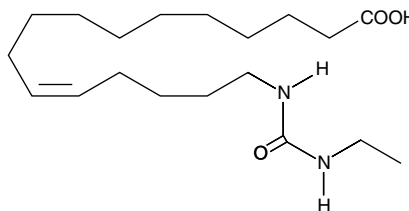
Product Information



CAY10662

Item No. 11042

CAS Registry No.: 1184844-74-3
Formal Name: 16-[[[(ethylamino)carbonyl]amino]-11Z-hexadecenoic acid
MF: C₁₉H₃₆N₂O₃
FW: 340.5
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A solution in methanol



Laboratory Procedures

For long term storage, we suggest that CAY10662 be stored as supplied at -20°C. It should be stable for at least two years.

CAY10662 is supplied as a solution in methanol. To change the solvent, simply evaporate the methanol under a gentle stream of nitrogen and immediately add the solvent of choice. Solvents such as ethanol, DMSO, and dimethyl formamide purged with an inert gas can be used. The solubility of CAY10662 in these solvents is approximately 2, 3, and 5 mg/ml, respectively.

CAY10662 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, the methanolic solution of CAY10662 should be diluted with the aqueous buffer of choice. CAY10662 has a solubility of approximately 0.2 mg/ml in a 1:4 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

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).¹ 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 ($EC_{50} < 1$ nM) over its parent compound.¹ At concentrations 1,000-fold higher than required for the effect on cardiomyocytes, 1-5 μ M CAY10662 exerts weak dose-dependent soluble epoxide hydrolase inhibition.¹

Reference

1. Falck, J.R., Wallukat, G., Puli, N., *et al.* 17(R), 18(S)-epoxyeicosatetraenoic acid, a potent eicosapentaenoic acid (EPA) derived regulator of cardiomyocyte contraction: Structure-activity relationships and stable analogues. *J. Med. Chem.* **54**(12), 4109-4118 (2011).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/11042

WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

MATERIAL SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Material Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman **warrants only** to the original customer that the material will **meet our specifications at the time of delivery.**

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