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**Product Data Sheet**

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Product Name: CAY10665

Cat. No.: GC18698

**Chemical Properties**

Cas. No. 1235543-17-5

Chemical Name 16-[[2-(methylamino)-2-oxoacetyl]amino]-11Z-hexadecenoic acid

SMILES O=C(C(NC)=O)NCCCC/C=C\CCCCCCCCC(O)=OFormula  $C_{19}H_{34}N_2O_4$  M.Wt 354.5

Solubility DMF: 30 mg/ml,DMSO: 30 mg/ml,Ethanol: 30 mg/ml 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**

Isolated neonatal rat cardiomyocytes, which spontaneously beat in culture, are used to evaluate the antiarrhythmic effects of polyunsaturated fatty acids (PUFA). In this model, the  $\omega$ -3 PUFA eicosapentaenoic acid (EPA, 3-10  $\mu$ M) reduces the contraction rate of cells, indicating a positive antiarrhythmic effect. Cytochrome P450 metabolites of EPA are more potent, with 17,18-epoxyeicosatetraenoic acid (17,18-EET) reducing contractions at 30 nM. CAY10665 is a bioisostere of 17,18-EET which is approximately 50% more effective at reducing arrhythmic contraction frequency, without affecting amplitude, when tested at 30 nM. This disubstituted oxamide represents a stable analog of 17,18-EET which may be used to study the mechanism of regulation of cardiomyocyte contractility by EPA metabolites.

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

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