Product Information

CAY10462
Item No. 10006400

CAS Registry No.: 502656-68-0
Formal Name: 6-[4-(1H-imidazol-1-yl)phenoxy]-N,N-dimethyl-1-hexanamine, dihydrochloride
MF: C_{17}H_{25}N_{3}O • 2HCl
FW: 360.3
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max} = 202, 246 nm

Laboratory Procedures
For long term storage, we suggest that CAY10462 be stored as supplied at -20°C. It should be stable for at least two years.

CAY10462 is supplied as a crystalline solid. A stock solution may be made by dissolving the CAY10462 in an organic solvent purged with an inert gas. CAY10462 is soluble in organic solvents such as ethanol and DMSO. The solubility of CAY10462 in these solvents is approximately 10 mg/ml.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of CAY10462 can be prepared by directly dissolving the crystalline compound in aqueous buffers. The solubility of CAY10462 in PBS (pH 7.2) is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

20-HETE is an important metabolite of arachidonic acid in the vasculature, especially in the kidney, where it is synthesized by cytochrome P450 (CYP450) enzymes of the 4A family. Alkylaryl imidazoles have been shown to inhibit certain CYP450 enzymes, including the CYP4A enzymes associated with 20-HETE synthesis. CAY10462 is a selective inhibitor of the 20-HETE synthase CYP4A11 exhibiting an IC_{50} of 8.8 nM when tested in human renal microsomes. CAY10434 is nearly 200 times less potent as an inhibitor of 1A, 1C, and 3A CYP450 enzymes.

References

Related Products
For a list of related products please visit: www.caymanchem.com/catalog/10006400

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's sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman's option, the replacement, at no cost to Buyer, of all material that does not meet our specifications.

Cayman Chemical Company makes no guarantee or warranty 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.

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees. Buyer's exclusive remedy and Cayman's sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman's option, the replacement, at no cost to Buyer, of all material that does not meet our specifications.

For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.