

Product Data Sheet

Product Name: PHOME
Cat. No.: GC40883

Chemical Properties

Cas. No. 1028430-42-3

SMILES COc1ccc2cc(ccc2c1)C(C#N)OC(=O)CC1OC1c1ccccc1

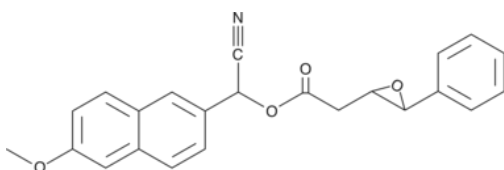
Formula C₂₃H₁₉NO₄ M.Wt 373.4

Solubility DMF: 10 mg/ml, DMSO: 10 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

EpETrE metabolizes arachidonic acid such as 11(12-EpETrE and 14(15)-EpETrE have been identified as endothelium derived hyperpolarizing factors with vasodilator activity. Soluble epoxide hydrolase (sEH) catalyzes the conversion of EpETrEs to the corresponding DiHETrEs thereby diminishing their activity. Inhibitors of sEH may therefore have clinical utility for treating hypertension and systemic inflammation. PHOME is a fluorogenic substrate for human sEH which displays good aqueous stability and solubility making it ideal for high throughput screening (HTS) programs. Hydrolysis of the substrate yields a highly fluorescent product that can be monitored at excitation and emission wavelengths of 330 and 465 nm, respectively. This fluorescent assay has a sensitivity that is 100 times greater than previously used spectrophotometric assays. NOTE: This substrate should only be used with the pure EH. If this substrate is used with crude enzyme preparations it is critical that all esterase activity is removed or inhibited, such as with organophosphate or a trifluoroketone inhibitor, and that glutathione is depleted and/or glutathione S-transferase is inhibited.

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

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