

Product Data Sheet

Product Name: PHOP
Cat. No.: GC40955

Chemical Properties

Cas. No. 288862-83-9

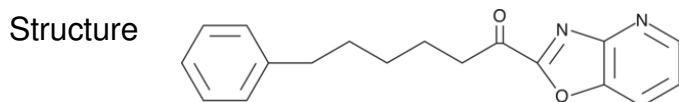
SMILES O=C(CCCCCc1ccccc1)c1nc2ncccc2o1

Formula C₁₈H₁₈N₂O₂ M.Wt 294.4

Solubility DMF: 30 mg/ml, DMSO: 30 mg/ml, DMSO:PBS (pH 7.2)(1:2): .25 mg/ml, Ethanol: 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.



Background

Fatty acid amide hydrolase (FAAH) is the enzyme responsible for hydrolysis and inactivation of fatty acid amides including anandamide and oleamide. PHOP is a potent FAAH inhibitor, exhibiting K_i values of 0.094 nM and 0.2 nM for the human and rat enzymes, respectively. Using a proteomics approach, PHOP was screened against the serine hydrolase family of enzymes, of which FAAH is a member. In this assay, PHOP exhibited IC_{50} values of 1.1 nM, 1.4 nM, and >100 μ M for FAAH, triacylglycerol hydrolase (TGH), and an uncharacterized hydrolase (KIAA1363), respectively. Knowledge of the specificity of PHOP obtained from this experiment should allow for more accurate interpretation of results using this inhibitor in complex environments such as whole cells or animals.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA