

Product Name: Proxyfan oxalate

Catalog No.: 2477

Batch No.: 3

CAS Number: 1620017-81-3

IUPAC Name: 4-[3-(Phenylmethoxy)propyl]-1*H*-imidazole oxalate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₆N₂O.C₂H₂O₄

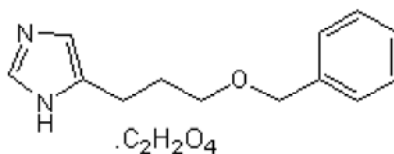
Batch Molecular Weight: 306.32

Physical Appearance: White solid

Solubility: DMSO to 100 mM
water to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.42 (Dichloromethane:Methanol:Ammonia soln. [9:1:3])

HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	58.82	5.92	9.15
Found	58.98	5.94	9.09

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

High affinity histamine H₃ receptor ligand (pK_i = 8.62) that acts as a protean agonist at recombinant and native receptors. In functional studies, activity ranges from full agonist to inverse agonist depending on system used. Displays partial agonist effects on cAMP inhibition and MAPK activity, neutral antagonist activity on histamine release and partial inverse agonism of [³H]-arachidonic acid release.

Physical and Chemical Properties:

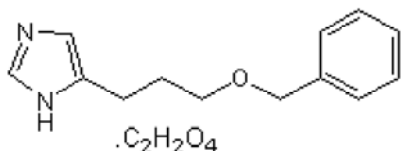
Batch Molecular Formula: C₁₃H₁₆N₂O.C₂H₂O₄

Batch Molecular Weight: 306.32

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

Baldi *et al* (2005) The H₃ receptor protean agonist proxyfan enhances the expression of fear memory in the rat. *Neuropharmacology* **48** 246. PMID: 15695163.

Krueger *et al* (2005) G protein-dependent pharmacology of histamine H₃ receptor ligands: evidence for heterogeneous active state receptor conformations. *J.Pharmacol.Exp.Ther* **314** 271. PMID: 15821027.

Gbahou *et al* (2003) Protean agonism at histamine H₃ receptors *in vitro* and *in vivo*. *Proc.Natl.Acad.Sci.USA* **100** 11086.

Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 100 mM

water to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

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