Certificate of Analysis

Product Name: **ROS 234 dioxalate** **Catalog No.: 2034** **Batch No.: 1**

CAS Number: 1781941-93-2

IUPAC Name: *N*-[3-(1*H*-Imidazol-4-yl)propyl]-1*H*-benzimidazol-2-amine dioxalate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{13}H_{15}N_5.2C_2H_2O_4$

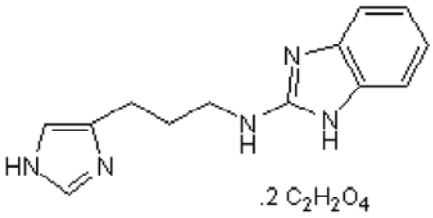
Batch Molecular Weight: 421.37

Physical Appearance: Off-white solid

Solubility: water to 50 mM
DMSO to 50 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >99.8% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

bio-techne.com
info@bio-techne.com
techsupport@bio-techne.com

North America
Tel: (800) 343 7475

China
info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa
Tel: +44 (0)1235 529449

Rest of World
www.tocris.com/distributors
Tel:+1 612 379 2956

Product Information

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IUPAC Name: *N*-[3-(1*H*-Imidazol-4-yl)propyl]-1*H*-benzimidazol-2-amine dioxalate

Description:

Potent H_3 antagonist (pK_B at guinea-pig ileum H_3-receptor = 9.46). Limited blood brain barrier permeability (ED_{50} = 19.12 mg/kg i.p.).

Physical and Chemical Properties:

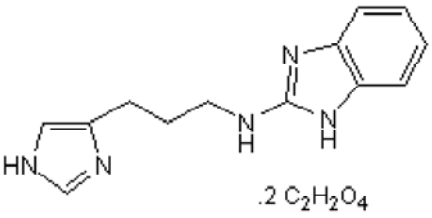
Batch Molecular Formula: $C_{13}H_{15}N_5.2C_2H_2O_4$

Batch Molecular Weight: 421.37

Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 50 mM
DMSO to 50 mM

CAUTION - This product is extremely hygroscopic and we recommend that it is desiccated upon arrival.

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.

References:

Mor *et al* (2004) Synthesis, biological activity, QSAR and QSPR study of 2-aminobenzimidazole derivatives as potent H_3-antagonists. Bioorg.Med.Chem.Lett. ***12*** 663.

Ballabeni *et al* (2002) CNS access of selected H3-antagonists: ex vivo binding study in rats. Inflamm.Res. ***51*** (Suppl 1) S55. PMID: 12013409.