Certificate of Analysis

Product Name: **HTMT dimaleate** **Catalog No.: 0646** **Batch No.: 2**

CAS Number: 195867-54-0

IUPAC Name: 6-[2-(4-Imidazolyl)ethylamino]-*N*-(4-trifluoromethylphenyl)heptanecarboxamide dimaleate

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{19}H_{25}F_3N_4O.2C_4H_4O_4$

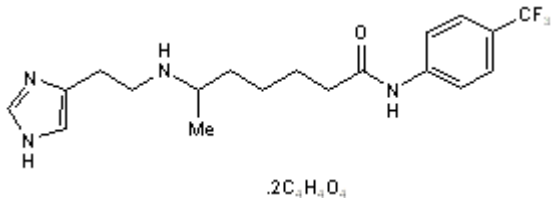
Batch Molecular Weight: 614.57

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Isopropanol:Ammonia solution [4:1])

Melting Point: Between 138 - 140°C

HPLC: Shows >99.5% purity

^{1}H NMR: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	52.77	5.41	9.12
Found	52.74	5.49	9.08

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

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Description:

H_1 and H_2 receptor agonist. $4x10^4$ times more active than histamine in H_2-mediated effects in natural suppressor cells. Increases intracellular Ca^{2+} and IP_3 in lymphocytes through a binding site other than H_1, H_2 or H_3.

Physical and Chemical Properties:

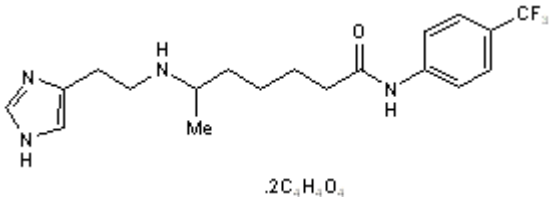
Batch Molecular Formula: $C_{19}H_{25}F_3N_4O.2C_4H_4O_4$

Batch Molecular Weight: 614.57

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM
DMSO to 100 mM

CAUTION - This product is hygroscopic and we recommend that it is desiccated upon arrival. Solutions should be made up as soon as the vial is opened.

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:

Khan *et al* (1986) The effects of derivatives of histamine on natural suppressor cells. J.Immunol. ***137*** 308. PMID: 3011908.

Khan *et al* (1987) Congener derivatives and conjugates of histamine: synthesis and tissue receptor selectivity of the derivatives. J.Med.Chem. ***30*** 2115. PMID: 2959777.

Shahid *et al* (2009) Histamine, histamine receptors and their role in immunomodulation: An updated systematic review. Open Immunol.J. ***2*** 9.