

**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:**  $C_{19}H_{25}F_3N_4O \cdot 2C_4H_4O_4$

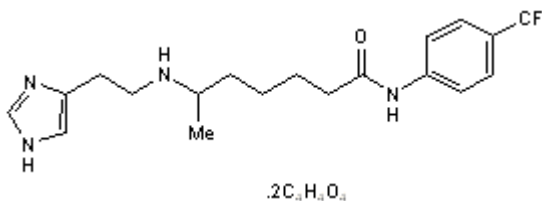
**Batch Molecular Weight:** 614.57

**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

**<sup>1</sup>H NMR:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	52.77	5.41	9.12
Found	52.74	5.49	9.08

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**Description:**

H<sub>1</sub> and H<sub>2</sub> receptor agonist. 4x10<sup>4</sup> times more active than histamine in H<sub>2</sub>-mediated effects in natural suppressor cells. Increases intracellular Ca<sup>2+</sup> and IP<sub>3</sub> in lymphocytes through a binding site other than H<sub>1</sub>, H<sub>2</sub> or H<sub>3</sub>.

**Physical and Chemical Properties:**

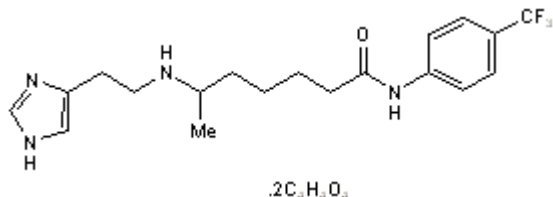
Batch Molecular Formula: C<sub>19</sub>H<sub>25</sub>F<sub>3</sub>N<sub>4</sub>O<sub>4</sub>·2C<sub>4</sub>H<sub>4</sub>O<sub>4</sub>

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.

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