



## CERTIFICATE OF ANALYSIS

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### 1. Identification

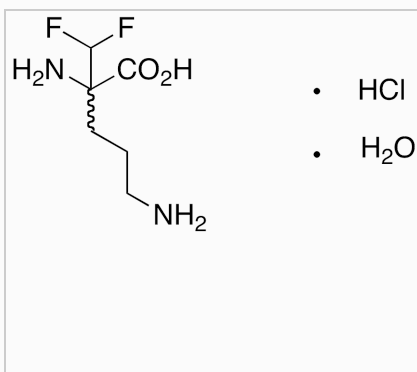
**Catalogue Number:** E436000

**CAS Number:** 96020-91-6

**Product:** Eflornithine Hydrochloride Monohydrate

**Synonym:** 2-(Difluoromethyl)-DL-ornithine Hydrochloride Hydrate; 2-(Difluoromethyl)ornithine; DFMO; DL-2-(Difluoromethyl)ornithine; DL- $\alpha$ -(Difluoromethyl)ornithine; Elflornithine; MDL 71782; MDL 71782A; Ornidyl; RFI 71782; RMI 71782;  $\alpha,\delta$ -Diamino- $\alpha$ -(difluoromethyl)

**Structure:**



**Molecular Formula:**

C<sub>6</sub>H<sub>12</sub>F<sub>2</sub>N<sub>2</sub>O<sub>2</sub> • HCl • H<sub>2</sub>O

**Molecular weight:**

182.17 + 36.46 + 18.02

**Source of Product:**

N/A

**Solubility:**

Methanol (Slightly), Water (Slightly)

**Lot Number:** 19-SBL-134-1

**Purity:** 98%

**Shipping Condition:** This Product Is Stable To Be Shipped At Room Temperature

**Storage Condition:** -20°C

### 2. Warning

**Warning 1:**

**Warning 2:**

**Warning 3:**

### 3. Analytical Information

Tests:	Specifications:	Results:
Elemental Analysis	Conforms	%C: 30.40, %H: 6.14, %N: 11.65
Chloride Content	Report Result	15.0%
Water Content	Report Result	7.5% by Karl Fischer
Appearance	White to Off-White Solid	White to Off-White Solid
NMR	Conforms to Structure	Conforms
F NMR	Conforms to Structure	Conforms
Specific Rotation	Report Result	0.0° (c = 0.2, Water)
MS	Conforms to Structure	Conforms
HPLC Purity	Report Result	99.95% (ELSD)

**Additional Information:** N/A

Purity is based on the analytical results of the tests performed. NMR and Elemental Analysis (if available) may have an accuracy of  $\pm 2\%$ . Isotopic purity is based on mass distribution observed. The contents of the specifications are subject to change without advance notice, and the specification values displayed here are the most up to date values.

### 4. Signatures

Reviewed By	Reviewed By	C of A Approved By	Test Date	Retest Date
Swathi Reddy	Toni Rantanen	Chanell Chu	11/9/2021	11/7/2025
				