



**Catalog # 10-2274**

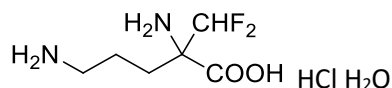
**Difluoromethylornithine HCl**

CAS# 96020-91-6

DL- $\alpha$ -Difluoromethylornithine·Hydrochloride·Monohydrate

DFMO

Lot # X102195



Selective inhibitor of ornithine decarboxylase<sup>1</sup>. Induces apoptosis in a variety of cells<sup>2</sup>. Displays cancer chemopreventive activity<sup>3</sup>. Cell permeable. Active *in vivo*.

- 1) Verma *et al.* (1990), *Inhibition of tumor promotion by DL-alpha-difluoromethylornithine, a specific irreversible inhibitor of ornithine decarboxylase*; Basic Life Sci., **52** 195
- 2) Takahashi *et al.* (2000), *alpha-difluoromethylornithine induces apoptosis as well as anti-angiogenesis in the inhibition of tumor growth and metastasis in a human gastric cancer model*; Int. J. Cancer, **85** 243
- 3) Meyskens *et al.* (1999), *Development of difluoromethylornithine (DFMO) as a chemoprevention agent*; Clin. Cancer Res., **5** 945

**PHYSICAL DATA**

Molecular Weight: 236.65  
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  
Purity: 98% by TLC  
NMR: (Conforms)  
Solubility: Water (up to 25 mg/ml)  
Physical Description: White solid  
Storage and Stability: Store as supplied at room temperature for up to 2 years from the date of purchase. Solutions in distilled water may be stored at -20°C for up to 3 months

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