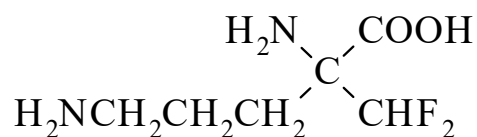




>>Entry Name: Eflornithine, BAN, INN

Synonym(s): 2-(Difluoromethyl)ornithine, 9CI. 2,5-Diamino-2-(difluoromethyl)pentanoic acid. Ornidyl. MDL 71782. RMI 71782. DFMO



CAS Registry Number: 70052-12-9

Type of Compound Code(s): XA2330 XA1950 XA2100

Molecular Formula: C<sub>6</sub>H<sub>12</sub>F<sub>2</sub>N<sub>2</sub>O<sub>2</sub>

Molecular Weight: 182.17

Accurate Mass: 182.086684

Percentage Composition: C 39.56%; H 6.64%; F 20.86%; N 15.38%; O 17.57%

Use/Importance: Antiprotozoal agent (ornithine decarboxylase inhibitor). Used in the treatment of trypanosomiasis and *Pneumocystis* pneumonia. Also shows some antineoplastic activity. Also prevents increase in blood pressure in animal models of hypertension

Calculated Log P Data: Log P -3 (uncertain value) (calc)

Hazard & Toxicity: Adverse gastrointestinal and haemopoietic effects reported. Exp. reprod. and teratogenic effects

Rare Chemicals Library: S1449-5

>>Variant: (+)-form

CAS Registry Number: 103957-16-0

Molecular Formula: C<sub>6</sub>H<sub>12</sub>F<sub>2</sub>N<sub>2</sub>O<sub>2</sub>

Molecular Weight: 182.17

Accurate Mass: 182.086684

Percentage Composition: C 39.56%; H 6.64%; F 20.86%; N 15.38%; O 17.57%

>>Derivative: Hydrochloride

CAS Registry Number: 70050-55-4

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 240°

Optical Rotation: [α]<sub>D</sub> +7 (c, 0.48 in MeOH)

>>Variant: (-)-form

CAS Registry Number: 66640-93-5

Molecular Formula: C<sub>6</sub>H<sub>12</sub>F<sub>2</sub>N<sub>2</sub>O<sub>2</sub>

Molecular Weight: 182.17

Accurate Mass: 182.086684

Percentage Composition: C 39.56%; H 6.64%; F 20.86%; N 15.38%; O 17.57%

>>Derivative: Hydrochloride

CAS Registry Number: 69955-42-6

Physical Description: Cryst. (EtOH aq.)

Melting Point: Mp 244°

Optical Rotation: [α]<sub>D</sub> -10 (c, 0.7 in MeOH)

>>Variant: (±)-form

CAS Registry Number: 67037-37-0

Molecular Formula: C<sub>6</sub>H<sub>12</sub>F<sub>2</sub>N<sub>2</sub>O<sub>2</sub>

Molecular Weight: 182.17

Accurate Mass: 182.086684

Percentage Composition: C 39.56%; H 6.64%; F 20.86%; N 15.38%; O 17.57%

>>Derivative: Hydrochloride

Synonym(s): Eflornithine hydrochloride, USAN

CAS Registry Number: 68278-23-9

Physical Description: Cryst. + 1H<sub>2</sub>O (EtOH aq.)

Melting Point: Mp 183°

References: