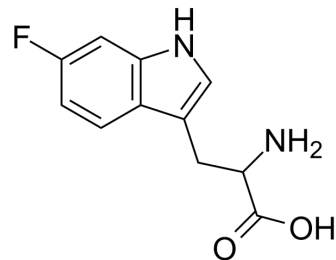


6-Fluorotryptophan

Cat. No.:	HY-W092533
CAS No.:	7730-20-3
Molecular Formula:	C ₁₁ H ₁₁ FN ₂ O ₂
Molecular Weight:	222.22
Target:	Tryptophan Hydroxylase
Pathway:	Metabolic Enzyme/Protease
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

H₂O : 4.85 mg/mL (21.83 mM; ultrasonic and warming and adjust pH to 2 with HCl and heat to 60°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.5000 mL	22.5002 mL	45.0005 mL
	5 mM	0.9000 mL	4.5000 mL	9.0001 mL
	10 mM	0.4500 mL	2.2500 mL	4.5000 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

6-Fluorotryptophan, a competitive inhibitor of tryptophan hydroxylase, produced a transient disruption of sleep in rats chronically implanted with EEG recording electrodes^[1].

REFERENCES

- [1]. Miwa S, et al. Determination of serotonin turnover in the rat brain using 6-fluorotryptophan. *J Neurochem.* 1987 May;48(5):1577-80.
- [2]. D Sugden, et al. Changes in the rat sleep-wake cycle produced by DL-6-fluorotryptophan, a competitive inhibitor of tryptophan hydroxylase. *Psychopharmacology (Berl).* 1981;74(4):369-73.

Caution: Product has not been fully validated for medical applications. For research use only.

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