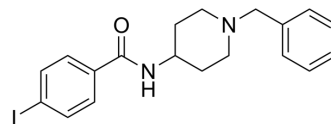


4-IBP

Cat. No.:	HY-100155		
CAS No.:	155798-08-6		
Molecular Formula:	C ₁₉ H ₂₁ N ₂ O		
Molecular Weight:	420.29		
Target:	Sigma Receptor		
Pathway:	Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (5.95 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2 mg/mL (4.76 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

4-IBP is a selective σ_1 agonist, binding to σ_1 receptors with high affinity ($K_i = 1.7$ nM) and with slightly weaker affinity to σ_2 receptors ($K_i = 25.2$ nM).

IC₅₀ & Target

Sigma 1 Receptor

Sigma 2 Receptor

REFERENCES

[1]. Mégalizzi V, et al. 4-IBP, a sigma1 receptor agonist, decreases the migration of human cancer cells, including glioblastoma cells, in vitro and sensitizes them in vitro and in vivo to cytotoxic insults of proapoptotic and proautophagic drugs. *Neoplasia*. 2007 May;9(5):358-69.

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

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