

Indiplon

**Chemical Properties**

CAS No.:	325715-02-4
Formula:	C <sub>20</sub> H <sub>16</sub> N <sub>4</sub> O <sub>2</sub> S
Molecular Weight:	376.43
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	Indiplon, a nonbenzodiazepine, hypnotic sedative, works by enhancing the action of the inhibitory neurotransmitter GABA, like most other nonbenzodiazepine sedatives. It primarily binds to the $\alpha$ 1 subunits of the GABAA receptors in the brain.
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**Solubility Information**

Solubility	Water: Insoluble DMSO: Soluble ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.657 mL	13.283 mL	26.565 mL
5 mM	0.531 mL	2.657 mL	5.313 mL
10 mM	0.266 mL	1.328 mL	2.657 mL
50 mM	0.053 mL	0.266 mL	0.531 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Shimizu M, Fukami T, Ito Y, Kurokawa T, Kariya M, Nakajima M, Yokoi T. Indiplon is hydrolyzed by arylacetamide deacetylase in human liver. *Drug Metab Dispos.* 2014 Apr;42(4):751-8. doi: 10.1124/dmd.113.056184. Epub 2014 Jan 24. PubMed PMID: 24464802.
2. Xu L, Wang J, Xiao B, Yang J, Liu Y, Huang R. Preparation and characterization of a novel polymorph of indiplon, Form  $\alpha$ . *Bioorg Med Chem Lett.* 2012 Jan 15;22(2):963-8. doi: 10.1016/j.bmcl.2011.12.013. Epub 2011 Dec 9. PubMed PMID: 22209207.
3. Lemon MD, Strain JD, Hegg AM, Farver DK. Indiplon in the management of insomnia. *Drug Des Devel Ther.* 2009 Sep 21;3:131-42. PubMed PMID: 19920929; PubMed Central PMCID: PMC2769245.
4. Marrs JC. Indiplon: a nonbenzodiazepine sedative-hypnotic for the treatment of insomnia. *Ann Pharmacother.* 2008 Jul;42(7):1070-9. doi: 10.1345/aph.1K683. Epub 2008 Jul 1. PubMed PMID: 18594049.

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