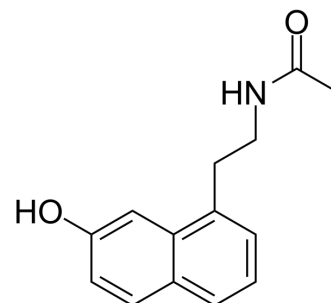


## 7-Desmethyl-agomelatine

<b>Cat. No.:</b>	HY-133113	
<b>CAS No.:</b>	152302-45-9	
<b>Molecular Formula:</b>	C <sub>14</sub> H <sub>15</sub> NO <sub>2</sub>	
<b>Molecular Weight:</b>	229.27	
<b>Target:</b>	5-HT Receptor	
<b>Pathway:</b>	GPCR/G Protein; Neuronal Signaling	
<b>Storage:</b>	Powder	-20°C 3 years 4°C 2 years
	In solvent	-80°C 6 months -20°C 1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 160 mg/mL (697.87 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	4.3617 mL	21.8083 mL	43.6167 mL
	5 mM	0.8723 mL	4.3617 mL	8.7233 mL
	10 mM	0.4362 mL	2.1808 mL	4.3617 mL

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

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.08 mg/mL (9.07 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (9.07 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.08 mg/mL (9.07 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

7-Desmethyl-agomelatine is a metabolite of Agomelatine. Agomelatine is a potent agonist at melatonin receptors (MT1 and MT2), and also is an antagonist of 5-HT<sub>2C</sub>[1][2].

### CUSTOMER VALIDATION

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- J Nanobiotechnology. 2021 Sep 4;19(1):263.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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[1]. Millan MJ, et al. The novel melatonin agonist agomelatine (S20098) is an antagonist at 5-hydroxytryptamine<sub>2C</sub> receptors, blockade of which enhances the activity of frontocortical dopaminergic and adrenergic pathways. J Pharmacol Exp Ther. 2003 Sep;306(3):9

[2]. Li M, et al. Development and validation a LC-MS/MS method for the simultaneous determination of agomelatine and its metabolites, 7-desmethyl-agomelatine and 3-hydroxy-agomelatine in human plasma: Application to a bioequivalence study. J Chromatogr B Analy

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA