
Product Data Sheet

Product Name: Ramelteon metabolite M-II

Cat. No.: GC37070

Chemical Properties

Cas. No. 896736-21-3

SMILES CC(O)C(NCC[C@@H]1CCC2=CC=C3OCCC3=C12)=OFormula $C_{16}H_{21}NO_3$ M.Wt 275.34

Solubility DMSO : 100 mg/mL (363.19 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

(R,S)-hydroxy Ramelteon metabolite M-II is a mixed isomer preparation of the melatonin receptor agonist ramelteon metabolite M-II, which is a metabolite of ramelteon .^{1,2} It has an (R,S) configuration at the hydroxy group, where ramelteon metabolite M-II has the (S) configuration at that position.

1. Nishiyama, K., Nishikawa, H., Kato, K., et al. Pharmacological characterization of M-II, the major human metabolite of ramelteon. *Pharmacology* 93(3-4):197-201(2014)

2. Nishiyama, K., and Hirai, K. In vitro comparison of duration of action of melatonin agonists on melatonin MT1 receptor: Possible link between duration of action and dissociation rate from receptor. *Eur. J. Pharmacol.* 757:42-52(2015)

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

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