

Product Data Sheet

Product Name: Tasimelteon-d5

Cat. No.: GC48881

Chemical Properties

Cas. No. 1962124-51-1

SMILES O=C(C([2H])([2H])C([2H])([2H])[2H])NC[C@@H]1C[C@@]1([H])C2=C3C(OCC3)=CC=C2

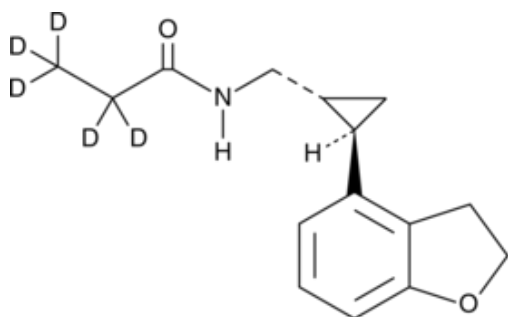
Formula C₁₅H₁₄D₅NO₂ M.Wt 250.4

Solubility Acetonitrile: soluble, DMF: Storage -20°C
soluble, DMSO: soluble, Methanol:
soluble

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

Tasimelteon-d₅ is intended for use as an internal standard for the quantification of tasimelteon by GC- or LC-MS. Tasimelteon is a melatonin (MT) receptor agonist.¹ It selectively binds MT₁ and MT₂ receptors (K_is = 0.304 and 0.069 nM, respectively, in NIH3T3 cells expressing the recombinant human receptors) over a panel of 160 additional receptors and enzymes at 10 μM. Tasimelteon inhibits forskolin-induced cAMP accumulation with EC₅₀ values of 0.79 and 1 nM in NIH3T3 cells expressing the MT₁ or MT₂ receptor, respectively. Formulations containing tasimelteon have been

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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used in the treatment of non-24-hour sleep-wake disorder.

1. Lavedan, C., Forsberg, M., and Gentile, A.J. Tasimelteon: A selective and unique receptor binding profile. *Neuropharmacology* 91:142-147 (2015)

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