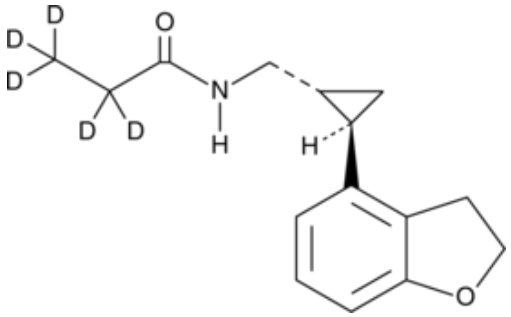
Product Data Sheet

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: soluble,DMSO: soluble,Methanol: soluble	Storage	-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

Tasimelteon-d_5 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 MT_1 and MT_2 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 MT_1 or MT_2 receptor, respectively. Formulations containing tasimelteon have been

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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 profileNeuropharmacology91142-147(2015)