

Product Data Sheet

Product Name: Cabergoline-d5

Cat. No.: GC71212

Chemical Properties

Cas. No. 1426173-20-7

Formula C₂₆H₃₂D₅N₅O₂

M.Wt 456.64

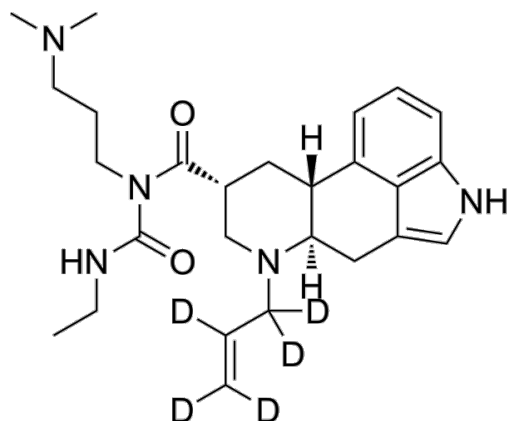
Solubility

Storage

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

Cabergoline-d5 is the deuterium labeled Cabergoline. Cabergoline is an ergot derived-dopamine D2-like receptor agonist that has high affinity for D2, D3, and 5-HT2B receptors (K_i=0.7, 1.5, and 1.2, respectively)[1][2].

Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs^[1].

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

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References:

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019;53(2):211-216.
- [2]. Odaka H, et al. Cabergoline, dopamine D2 receptor agonist, prevents neuronal cell death under oxidative stress via reducing excitotoxicity. *PLoS One*. 2014 Jun 10;9(6):e99271.
- [3]. Jefferson F, et al. A dopamine receptor d2-type agonist attenuates the ability of stress to alter sleep in mice. *Endocrinology*. 2014 Nov;155(11):4411-21.

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