

Product Data Sheet

Product Name: Mavacamten-d5

Cat. No.: GC72814

Chemical Properties

Cas. No. 2453251-00-6

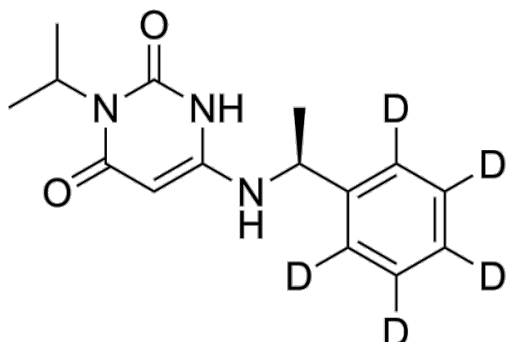
Formula $C_{15}H_{14}D_5N_3O_2$ M.Wt 278.36

Solubility DMSO : 100 mg/mL (359.25 mM; Storage -20°C
Need ultrasonic)

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

Mavacamten-d5 (MYK461-d5; SAR439152-d5) is deuterium labeled Mavacamten . Mavacamten (MYK461) is an orally active modulator of cardiac myosin, with IC50s of 490, 711 nM for bovine cardiac and human cardiac, respectively.

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

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Stable heavy isotopes of drogen, 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].

References:

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.
- [2]. Kawas RF, et al. A small-molecule modulator of cardiac myosin acts on multiple stages of the myosin chemomechanical cycle. J Biol Chem. 2017 Oct 6;292(40):16571-16577.
- [3]. Stern JA, et al. A Small Molecule Inhibitor of Sarcomere Contractility Acutely Relieves Left Ventricular Outflow Tract Obstruction in Feline pertrophic Cardiomyopat. PLoS One. 2016 Dec 14;11(12):e0168407.
- [4]. Green EM, et al. A small-molecule inhibitor of sarcomere contractility suppresses pertrophic cardiomyopat in mice. Science. 2016 Feb 5;351(6273):617-21.

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