
Product Data Sheet

Product Name: Bambuterol-d9 hydrochloride

Cat. No.: GC63433

Chemical Properties

Cas. No. 1794810-59-5

Formula $C_{18}H_{21}D_9ClN_3O_5$

M.Wt

412.96

Solubility

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**

Bambuterol-D9 ((±)-Bambuterol-D9) hydrochloride is the deuterium labeled Bambuterol. Bambuterol ((±)-Bambuterol) hydrochloride is a long acting beta-adrenoceptor agonist (LABA) used in the treatment of asthma; it also is a prodrug of terbutaline.

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].

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother.* 2019;53(2):211-216. [2]. Bambuterol, From Wikipedia

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

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