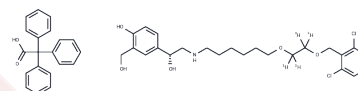


Vilanterol-D4 Triphenylacetate

Chemical Properties

CAS No. :	2021249-10-3
Formula:	C44H45D4Cl2NO7
Molecular Weight:	778.79
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	Vilanterol-D4 Triphenylacetate is a deuterated compound of Vilanterol Triphenylacetate. Vilanterol Triphenylacetate (T5134) has a CAS number of 503070-58-4. Vilanterol trifenate is a long-acting agonist of β_2 -adrenoceptor (β_2 -AR) with inherent 24-hour activity (β_2 -AR, β_1 -AR and β_3 -AR pEC50s of 10.37, 6.98 and 7.36, respectively)
Targets(IC50)	Adrenergic Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.284 mL	6.4202 mL	12.8404 mL
5 mM	0.2568 mL	1.284 mL	2.5681 mL
10 mM	0.1284 mL	0.642 mL	1.284 mL
50 mM	0.0257 mL	0.1284 mL	0.2568 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Slack RJ, et al. In vitro pharmacological characterization of vilanterol, a novel long-acting β_2 -adrenoceptor agonist with 24-hour duration of action. J Pharmacol Exp Ther. 2013 Jan;344(1):218-30

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