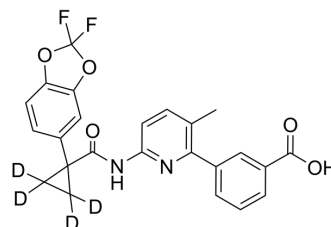


Lumacaftor-d₄

Cat. No.:	HY-13262S		
CAS No.:	2733561-44-7		
Molecular Formula:	C ₂₄ H ₁₄ D ₄ F ₂ N ₂ O ₅		
Molecular Weight:	456.43		
Target:	Isotope-Labeled Compounds		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (219.09 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.1909 mL	10.9546 mL	21.9092 mL
5 mM	0.4382 mL	2.1909 mL	4.3818 mL
10 mM	0.2191 mL	1.0955 mL	2.1909 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Lumacaftor-d₄ is the deuterium labeled Lumacaftor (HY-13262)[1].

In Vitro

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].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-232.

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

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