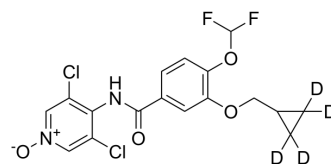


Roflumilast-d₄ N-Oxide

Cat. No.:	HY-15455S1		
CAS No.:	1794760-31-8		
Molecular Formula:	C ₁₇ H ₁₀ D ₄ Cl ₂ F ₂ N ₂ O ₄		
Molecular Weight:	423.23		
Target:	Phosphodiesterase (PDE); RSV		
Pathway:	Metabolic Enzyme/Protease; Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	Roflumilast-d ₄ N-Oxide is the deuterium labeled Roflumilast. Roflumilast is a selective PDE4 inhibitor with IC50s of 0.7, 0.9, 0.7, and 0.2 nM for PDE4A1, PDEA4, PDEB1, and PDEB2, respectively, without affecting PDE1, PDE2, PDE3 or PDE5 isoenzymes from various cells[1][2].
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.

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

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