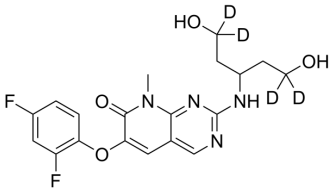
Pamapimod-d_4

Cat. No.:	HY-10405S
CAS No.:	1246814-57-2
Molecular Formula:	$C_{19}H_{16}D_4F_2N_4O_4$
Molecular Weight:	410.41
Target:	p38 MAPK; Autophagy; Isotope-Labeled Compounds
Pathway:	MAPK/ERK Pathway; Autophagy; Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Pamapimod-d_4 (Ro4402257-d4) is the deuterium labeled Pamapimod. Pamapimod (Ro4402257) is a potent, selective and orally active p38 MAPK inhibitor with IC50s of 14 nM and 480 nM and Kis of 1.3 nM and 120 nM for p38α and p38β, respectively. Pamapimod has no activity against p38δ or p38γ isoforms. Pamapimod has the potential for rheumatoid arthritis and other autoimmune diseases treatment[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.

REFERENCES

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

[2]. Hill, R. J. et al. Pamapimod, a novel p38 mitogen-activated protein kinase inhibitor: preclinical analysis of efficacy and selectivity. The Journal of pharmacology and experimental therapeutics 327, 610-619, doi:10.1124/jpet.108.139006 (2008).

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