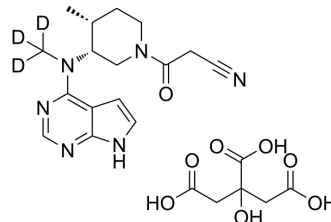


Tofacitinib-d₃ citrate

Cat. No.:	HY-40354AS
CAS No.:	2701680-77-3
Molecular Formula:	C ₂₂ H ₂₅ D ₃ N ₆ O ₈
Molecular Weight:	507.51
Target:	Fungal; Apoptosis; JAK; Bacterial; Influenza Virus; Isotope-Labeled Compounds
Pathway:	Anti-infection; Apoptosis; Epigenetics; JAK/STAT Signaling; Protein Tyrosine Kinase/RTK; Stem Cell/Wnt; Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



BIOLOGICAL ACTIVITY

Description	Tofacitinib-d ₃ (citrate) is deuterium labeled Tofacitinib (citrate). Tofacitinib citrate is an orally available JAK1/2/3 inhibitor with IC50s of 1, 20, and 112 nM, respectively. Tofacitinib citrate has antibacterial, antifungal and antiviral activities.
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

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

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