Product Data Sheet

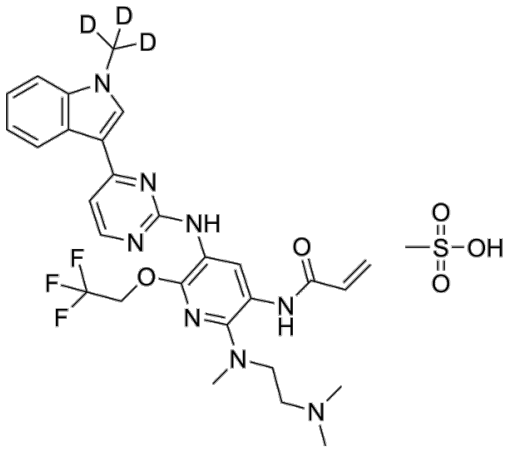
Product Name: Firmonertinib-d 3 mesylate
Cat. No.: GC80858

Chemical Properties

Cas. No.

Formula	$C_{29}H_{32}D_3F_3N_8O_5S$	M.Wt	667.72
Solubility	DMSO: 100 mg/mL (149.76 mM; Need ultrasonic)	Storage	Store at 4°C, away from moisture
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

Firmonertinib-d 3 (Alflutinib-d 3) mesylate is the deuterium labeled Firmonertinib mesylate. Firmonertinib (Alflutinib; Furmonertinib) mesylate is is an orally active, mutant-selective, and blood-

brain barrier penetrant EGFR inhibitor. Firmonertinib mesylate inhibits EGFR active mutations as well as the T790M acquired resistant mutation. Firmonertinib mesylate has the potential for the research of cancer diseases, especially advanced non-small cell lung cancer (NSCLC) with EGFR ex20ins mutation.

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.