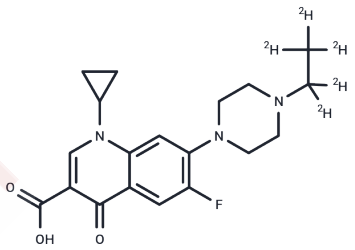
Data Sheet (Cat.No.T71984)

TargetMol

Enrofloxacin-D5

Chemical Properties



CAS No. : 1173021-92-5

Formula: C19H22FN3O3

Molecular Weight: 364.43

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Enrofloxacin-D5 is a deuterium marker for Enrofloxacin (T1617) and can be used in isotope tracer experiments.Enrofloxacin (BAY-Vp2674) is an antibiotic that acts against Mycoplasma bovis and has a MIC90 of 0.312 μg/mL.
Targets(IC50)	Others,Endogenous Metabolite,Antibacterial,Antibiotic

Solubility Information

Solubility	DMSO: 1 mg/mL (2.74 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.744 mL	13.7201 mL	27.4401 mL
5 mM	0.5488 mL	2.744 mL	5.488 mL
10 mM	0.2744 mL	1.372 mL	2.744 mL
50 mM	0.0549 mL	0.2744 mL	0.5488 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Qiu W, et al. Enrofloxacin Induces Intestinal Microbiota-Mediated Immunosuppression in Zebrafish. Environ Sci Technol. 2022 Jun 21;56(12):8428-8437.

Kowalczyk P, Strzępa A, Szczepanik M. Perinatal treatment of parents with the broad-spectrum antibiotic enrofloxacin aggravates contact sensitivity in adult offspring mice. Pharmacol Rep. 2021 Apr;73(2):664-671. doi: 10.1007/s43440-021-00217-3. Epub 2021 Jan 22.

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