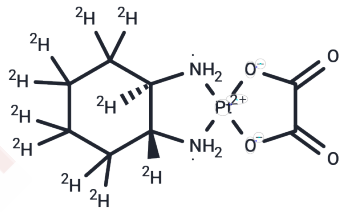
Data Sheet (Cat.No.T71401)

TargetMol

Oxaliplatin-D10

Chemical Properties



CAS No. : 1132819-16-9

Formula: C8H4D10N2O4Pt

Molecular Weight: 407.35

Storage: 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	Oxaliplatin-D10 is intended for use as an internal standard for the quantification of oxaliplatin by GC- or LC-MS. Oxaliplatin (T0164) is a platinum-containing DNA-crosslinking agent. It induces the formation of DNA inter- and intrastrand crosslinks and DNA-protein adducts, inhibits DNA and RNA synthesis, and induces apoptosis in cancer cells. Oxaliplatin (T0164) is cytotoxic to cisplatin-sensitive A2780 (1A9) and KB-3-1 cells and cisplatin-resistant A2780-E (80) and KB-CP20 cells (IC50s = 0.12, 0.39, 4.7, and 2.7 μM, respectively). It reduces tumor growth in an HCCLM3 mouse xenograft model when administered at doses of 5 or 10 mg/kg once per week. Formulations containing oxaliplatin have been used in the treatment of advanced colorectal cancer and as adjuvants in stage III colon cancer.
Targets(IC50)	Apoptosis,DNA/RNA Synthesis

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4549 mL	12.2745 mL	24.5489 mL
5 mM	0.491 mL	2.4549 mL	4.9098 mL
10 mM	0.2455 mL	1.2274 mL	2.4549 mL
50 mM	0.0491 mL	0.2455 mL	0.491 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.

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