

Trilostane-D3

Chemical Properties

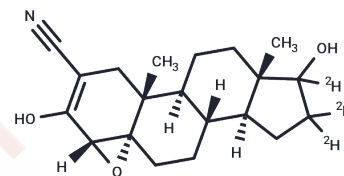
CAS No. :

Formula: C₂₀H₂₄D₃NO₃

Molecular Weight: 332.45

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	Trilostane-D3 is a deuterium-substituted isotope-labeled compound of Trilostane (T1473), which is used primarily as a quantitative tracer. Trilostane is a competitive and specific inhibitor of 3-beta-hydroxysteroid dehydrogenase (3β-HSD), with the advantage of oral activity. Trilostane reduces the synthesis of steroid hormones by inhibiting the activity of 3β-HSD, and can be used in studies of Cushing's syndrome (hypercortisolism), Con's syndrome (hyperaldosteronism), and postmenopausal breast cancer.
Targets(IC50)	Dehydrogenase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.008 mL	15.0399 mL	30.0797 mL
5 mM	0.6016 mL	3.008 mL	6.0159 mL
10 mM	0.3008 mL	1.504 mL	3.008 mL
50 mM	0.0602 mL	0.3008 mL	0.6016 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

Kushner DJ, Baker A, Dunstall TG. Pharmacological uses and perspectives of heavy water and deuterated compounds. Can J Physiol Pharmacol. 1999 Feb;77(2):79-88.

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