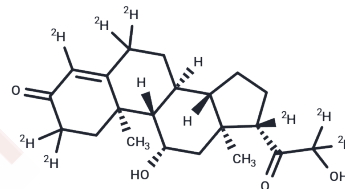


## Corticosterone-D8

## Chemical Properties

CAS No. :	1271728-07-4
Formula:	C <sub>21</sub> H <sub>22</sub> D <sub>8</sub> O <sub>4</sub>
Molecular Weight:	354.51
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	Corticosterone-D8 is a 2H-labeled corticosteroid, an orally active adrenal corticosteroid with mineralocorticoid and glucocorticoid activity, involved in hormonal regulation in animals.
Targets(IC50)	Glucocorticoid Receptor, Endogenous Metabolite, iGluR

## Solubility Information

Solubility	H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble) DMSO: 80 mg/mL (225.66 mM), Sonication is recommended. Ethanol: 8 mg/mL (22.57 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.8208 mL	14.104 mL	28.2079 mL
5 mM	0.5642 mL	2.8208 mL	5.6416 mL
10 mM	0.2821 mL	1.4104 mL	2.8208 mL
50 mM	0.0564 mL	0.2821 mL	0.5642 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

Gasser PJ, et al. Corticosterone-sensitive monoamine transport in the rat dorsomedial hypothalamus: potential role for organic cation transporter 3 in stress-induced modulation of monoaminergic neurotransmission. J Neurosci. 2006 Aug 23;26(34):8758-66.

Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019 Feb;53(2):211-216.

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