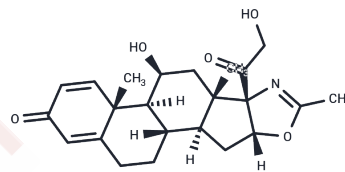


## 21-deacetyldeflazacort

## Chemical Properties

CAS No. : 13649-57-5  
 Formula: C<sub>23</sub>H<sub>29</sub>NO<sub>5</sub>  
 Molecular Weight: 399.48  
 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	21-deacetyldeflazacort is a metabolite of Deflazacort, which is a systemic corticosteroid and a derivative of prednisolone.
Targets(IC50)	Others, Drug Metabolite
In vitro	21-deacetyldeflazacort displaces [3H]dexamethasone from its cytosol receptor sites in rat kidney, thymus and liver in vitro.
In vivo	21-deacetyldeflazacort inhibited 48-h homologous passive cutaneous anaphylaxis in rats, but had no significant effects on active systemic anaphylaxis in mice, on the Schultz-Dale reaction in the isolated guinea-pig trachea or on compound 48/80-induced histamine release in rat peritoneal mast cells. 21-deacetyldeflazacort inhibited reversed cutaneous anaphylaxis in rats and the Arthus reaction in mice[1].

## Solubility Information

Solubility	DMSO: 65 mg/mL (162.71 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	2.5033 mL	12.5163 mL	25.0325 mL
5 mM	0.5007 mL	2.5033 mL	5.0065 mL
10 mM	0.2503 mL	1.2516 mL	2.5033 mL
50 mM	0.0501 mL	0.2503 mL	0.5007 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

Omote M, et al. Acute effects of deflazacort and its metabolite 21-desacetyl-deflazacort on allergic reactions.

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Luzzani F, Glässer A. Differential binding in vitro to glucocorticoid receptors of deflazacort and prednisolone. Eur J Pharmacol. 1981 Dec 17;76(4):427-30. doi: 10.1016/0014-2999(81)90115-1.

Ifa DR, et al. Determination of 21-hydroxydeflazacort in human plasma by high-performance liquid chromatography/atmospheric pressure chemical ionization tandem mass spectrometry. Application to bioequivalence study. J Mass Spectrom. 2000 Mar;35(3):440-5.

Reynolds DL, et al. Quantitative determination of 21-hydroxy-deflazacort in human plasma using gradient semi-microbore liquid chromatography. Biomed Chromatogr. 1994 Sep-Oct;8(5):230-5.

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