

Betamethasone acetate

**Chemical Properties**

|                   |  |
|-------------------|--|
| CAS No.:          | 987-24-6   |
| Formula:          | C <sub>24</sub> H <sub>31</sub> FO <sub>6</sub>                        |
| Molecular Weight: | 434.5  |
| Appearance:       | N/A  |
| Storage:          | 0-4°C for short term (days to weeks), or -20°C for long term (months). |

**Biological Description**

|             |  |
|-------------|--|
| Description | Betamethasone acetate, the 21-acetate ester of betamethasone, is a synthetic glucocorticoid corticosteroid and a corticosteroid ester. |
|-------------|--|

**Solubility Information**

|            |   |
|------------|---|
| Solubility | DMSO: Soluble<br>( < 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

|       | 1mg      | 5mg       | 10mg      |
|-------|----------|-----------|-----------|
| 1 mM  | 2.301 mL | 11.507 mL | 23.015 mL |
| 5 mM  | 0.460 mL | 2.301 mL  | 4.603 mL  |
| 10 mM | 0.230 mL | 1.151 mL  | 2.301 mL  |
| 50 mM | 0.046 mL | 0.230 mL  | 0.460 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

- Ehling S, Baynes RE, Bäumer W. Impact of synthetic canine cerumen on in vitro penetration of auricular skin of dogs by florfenicol, terbinafine, and betamethasone acetate. *Am J Vet Res.* 2018 Mar;79(3):333-341. doi: 10.2460/ajvr.79.3.333. PubMed PMID: 29466046.
- Schmidt AF, Kemp MW, Rittenschöber-Böhm J, Kannan PS, Usuda H, Saito M, Furfaro L, Watanabe S, Stock S, Kramer BW, Newnham JP, Kallapur SG, Jobe AH. Low-dose betamethasone-acetate for fetal lung maturation in preterm sheep. *Am J Obstet Gynecol.* 2018 Jan;218(1):132.e1-132.e9. doi: 10.1016/j.ajog.2017.11.560. Epub 2017 Nov 11. PubMed PMID: 29138038; PubMed Central PMCID: PMC5759749.
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- Menendez MI, Phelps MA, Bertone AL. Pharmacokinetics of intra-articular betamethasone sodium phosphate and betamethasone acetate and endogenous hydrocortisone suppression in exercising horses. *J Vet Pharmacol Ther.* 2016 Feb;39(1):22-6. doi: 10.1111/jvp.12229. Epub 2015 Apr 3. PubMed PMID: 25847081.

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