

## Betamethasone 21-phosphate (sodium salt hydrate) Biochemical

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CATALOG #  
**AAA227374**

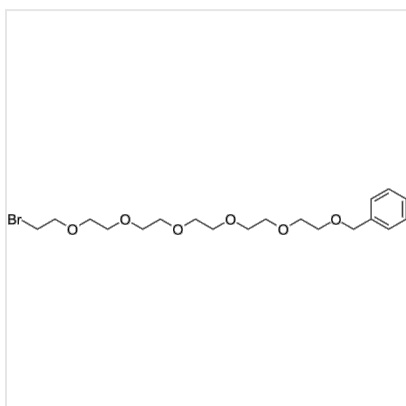
### PRODUCT SYNONYMS

Betamethasone 21-phosphate (sodium salt hydrate); Betamethasone 21-phosphate (sodium salt hydrate) biochemical

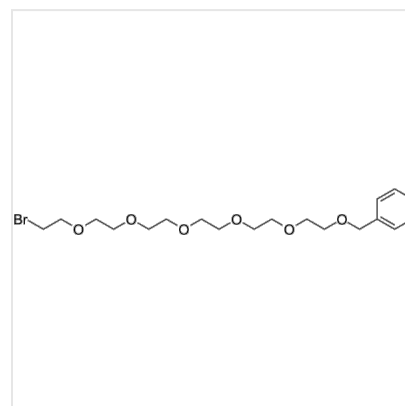
### PRODUCT SPECIFICATIONS

|                         |                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------|
| Purity/Purification     | 98%                                                                                                                     |
| Solubility              | H <sub>2</sub> O: 30 mg/mL<br><br>PBS (pH 7.2): 10 mg/mL<br><1mg/ml refers to the product slightly soluble or insoluble |
| Preparation and Storage | Powder: -20 degree C for 3 years<br>In solvent: -80 degree C for 2 years                                                |

### IMAGES



Structure  
Benzyl-PEG6-bromide, CAS 1449202-44-1



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### ADDITIONAL INFORMATION

#### Related Product Information for Betamethasone 21-phosphate (sodium salt hydrate) biochemical

Betamethasone 21-phosphate is a synthetic glucocorticoid.1It prevents increases in macrophage and eosinophil numbers in bronchoalveolar lavage fluid (BALF) and decreases in blood leukocyte numbers in a guinea pig model of parainfluenza-3 viral infection when administered at a dose of 8mg/kg but does not prevent airway hyperresponsiveness after infection.2Betamethasone 21-phosphate inhibits cell infiltration into the aqueous humor in a rat model of endotoxin-induced uveitis when administered topically or subcutaneously at doses of 0.01-1% or 1 mg/kg, respectively.3It increases maximal lung pressure volume curves in fetal sheep when administered to pregnant ewes at 0.75 gestation at doses of 80 and 170 ug/kg.1Betamethasone 21-phosphate increases body weight, impairs learning and memory, increases anxiolytic behavior, and reduces hippocampal neurogenesis in CD-1 mice but reduces body weight and increases neurogenesis with no effect on anxiety in high-anxiety DBA/2 mice when administered at a dose of approximately 25 mg/kg per day in the drinking water for seven weeks.4Formulations containing betamethasone 12-phosphate and betamethasone acetate have been used in the treatment of severe allergic conditions and a variety of immune-related conditions.

## References

1. An S, et al. Small-molecule PROTACs: An emerging and promising approach for the development of targeted therapy drugs. EBioMedicine. 2018 Oct;36:553-562

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/biochemical/betamethasone-21-phosphate-sodium-salt-hydrate/227374>