Betamethasone Valerate

**Product ID** B1879  
**CAS No.** 2152-44-5

**Chemical Name** [(8S,9R,10S,11S,13S,14S,16S,17R)-9-fluoro-11-hydroxy-17-(2-hydroxyacetyl)-10,13,16-trimethyl-3-oxo-6,7,8,11,12,14,15,16-octahydrocyclopenta[a]phenanthren-17-yl] pentanoate  
**Synonym** Betaderm, Betnovate

**Formula** C_{27}H_{37}FO_{6}  
**Formula Wt.** 476.58  
**Melting Point** 183.5 °C  
**Purity** ≥98%  
**Solubility** Insoluble in water. Ethanol (62 mg/mL). Soluble in acetone, DMSO.

**Store Temp** Ambient  
**Ship Temp** Ambient

**Description** Betamethasone valerate (BMV) is a synthetic glucocorticoid that is commonly used to treat psoriasis and dermatitis. BMV exhibits immunomodulatory, anti-inflammatory, and vasoconstrictive activity in vitro and in vivo. Across animal models of varying ages, BMV impairs maturation and viability of Langerhans and epidermal cells. BMV also decreases endogenous phospholipase activity and inhibits vasodilatory responses in skin; this partial vasoconstriction decreases blood flow, often resulting in a decrease in local TGF-β1 levels.

**References**  


**Caution:** This product is intended for laboratory and research use only. It is not for human or drug use.