



LKT Laboratories, Inc.

Desmopressin Acetate

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Product Information

Product ID D1777

CAS No. 16679-58-6

Chemical Name

Synonym

Formula $C_{46}H_{64}N_{14}O_{12}S_2$

Formula Wt. 1069.24

Melting Point

Purity $\geq 95\%$

Solubility Soluble in water (4 mg/mL).

Store Temp -20°C

Ship Temp Ambient

Description Desmopressin is a synthetic peptide derivative of arginine vasopressin that binds and activates vasopressin-2 receptors (V2Rs). Desmopressin exhibits pro-coagulant/pro-thrombotic and antidiuretic activities and is clinically used to treat bleeding disorders such as hemophilia. Desmopressin enhances platelet pro-coagulant activity and increase platelet-dependent thrombin generation in a $\text{Na}^{+}/\text{Ca}^{2+}$ -dependent manner.

c[Mpr-Tyr-Phe-Gln-Asn-Cys]-
Pro-D-Arg-Gly-NH₂

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
D1777	1 mg	\$185.30
D1777	2 mg	\$315.20
D1777	5 mg	\$556.20

References Colucci G, Stutz M, Rochat S, et al. The effect of desmopressin on platelet function: a selective enhancement of procoagulant COAT-platelets in patients with primary platelet function defects. *Blood*. 2014 Jan 17. [Epub ahead of print]. PMID: 24443440.

Leissinger C, Carcao M, Gill JC, et al. Desmopressin (DDAVP) in the management of patients with congenital bleeding disorders. *Haemophilia*. 2014 Mar;20(2):158-67. PMID: 23937614.

Juul KV, Klein BM, Sandström R, et al. Gender difference in antidiuretic response to desmopressin. *Am J Physiol Renal Physiol*. 2011 May;300(5):F1116-22. PMID: 21367921.

Slusarz MJ, Slusarz R, Ciarkowski J. Investigation of mechanism of desmopressin binding in vasopressin V2 receptor versus vasopressin V1a and oxytocin receptors: molecular dynamics simulation of the agonist-bound state in the membrane-aqueous system. *Biopolymers*. 2006 Apr 5;81(5):321-38. PMID: 16333859.

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