



# LKT Laboratories, Inc.

## Desmopressin Acetate

Phone: 888-558-5227  
651-644-8424  
Fax: 888-558-7329  
Email: [getinfo@lktlabs.com](mailto:getinfo@lktlabs.com)  
Web: [lktlabs.com](http://lktlabs.com)

### 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  $-20^{\circ}C$

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  $Na^{+}/Ca^{2+}$ -dependent manner.

c[Mpr-Tyr-Phe-Gln-Asn-Cys]-  
Pro-D-Arg-Gly-NH<sub>2</sub>

**Bulk quantities available upon request**

Product ID	Size
D1777	1 mg
D1777	2 mg
D1777	5 mg

**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.