



LKT Laboratories, Inc.

## Desmopressin

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### Product Information

**Product ID** D1776

**CAS No.** 16679-58-6

**Chemical Name** 1-(3-mercaptopropanoic acid)-8-D-arginine vasopressin

**Synonym** Minirin, Desmospray, Adiuretin SD.

**Formula** C<sub>46</sub>H<sub>64</sub>N<sub>14</sub>O<sub>12</sub>S<sub>2</sub>

**Formula Wt.** 1069.1

**Melting Point**

**Purity** ≥95%

**Solubility** Soluble in DMSO (5 mg/mL),  
DMF, 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 Na<sup>+</sup>/Ca<sup>2+</sup>-dependent manner.

Map-Tyr-Phe-Gln-Asn-Cys-Pro-  
D-Arg-Gly-NH<sub>2</sub>  
(Disulfide bridge, Map1-Cys6)

**Bulk quantities available upon request**

Product ID	Size
D1776	1 mg
D1776	2 mg
D1776	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.

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