

Product Data Sheet

Cat # RP-1494

Desmopressin

Size: 5 mg

Source: Desmopressin also called ADH (Anti-Diuretic Hormone) has a molecular formula of $C_{46}H_{64}N_{14}O_{12}S_2$, Mpr-Tyr-Phe-Gln-Asn-Cys-Pro-D-Arg-Gly-NH₂ having a Mw of 1069.23 Dalton, is the first vasopressin analog with a very high and very specific antidiuretic effect, has been widely used for different therapeutic purposes and is believed to be partly responsible for the formation of memories learning and memory processes. Desmopressin increases urine concentration and decreases urine production. Desmopressin is used to prevent and control excessive thirst, urination, and dehydration. The protein (1 mg/ml) was lyophilized with no additives.

Usage: This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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Application and Suggested Dilution: It is recommended to reconstitute the lyophilized DDAVP in sterile 18MQ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions. Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. Users must optimize concentration and conditions for each assay.

Storage and Stability: Lyophilized Desmopressin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution DDAVP should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Please prevent freeze-thaw cycles.** If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.

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