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Product Data Sheet

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Cat # RP-1475

Human Atosiban

**Size:** 10 mg

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**Source:** Atosiban also called ADH (Anti-Diuretic Hormone) has a molecular formula of  $C_{43}H_{67}N_{11}O_{12}S_2$ , Mpr-Tyr(OEt)-Ile-Thr-Asn-Cys-Pro-Orn-Gly-NH<sub>2</sub> having a Mw of 994.2 Dalton is the first oxytocin antagonist to be specifically developed for the treatment of preterm labour. Atosiban has a specific mode of action, inhibiting oxytocin-induced uterine contractions by blocking oxytocin receptors in the uterus. Extensive clinical investigations have shown Atosiban to be at least as effective as current tocolytic agents. In addition, due to its novel and specific mode of action, Atosiban has a markedly improved maternal side effects profile compared with conventional therapies. 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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**Applications and Suggested Dilutions:** It is recommended to reconstitute the lyophilized Atosiban in sterile 18MΩ-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. Greater than 99.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. Users must optimize the appropriate concentration and conditions for each assay.

**Storage and Stability:** Lyophilized Atosiban although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Atosiban 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 4oC for ~1 week or aliquots in suitable size and store at -20oC for long term storage.