

## Atosiban

**Description:**Atosiban also called ADH (Anti-Diuretic Hormone) has a molecular formula of  $C_{43}H_{67}N_{11}O_{12}S_2$ , C[Mpr-D-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.

Catalog #:HOPS-246

For research use only.

**Physical Appearance:**Sterile Filtered White lyophilized (freeze-dried) powder.

**Purity:**Greater than 99.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

**Formulation:**

The Atosiban peptide was lyophilized with no additives.

**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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute the lyophilized Atosiban in sterile 18M-cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

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