

Atosiban

Catalog No: tcsc3116



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg



Specifications

CAS No:

90779-69-4

Formula:

$C_{43}H_{67}N_{11}O_{12}S_2$

Pathway:

GPCR/G Protein

Target:

Oxytocin Receptor

Purity / Grade:

>98%

Solubility:

H₂O : ≥ 150 mg/mL (150.88 mM)

Alternative Names:

RW22164;RWJ22164

Observed Molecular Weight:

994.19

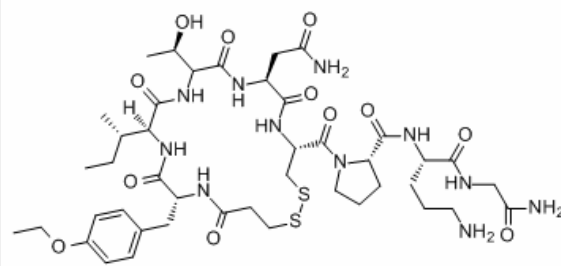
Product Description

Atosiban(RW22164; Tractocile) is a nonapeptide, desamino-oxytocin analogue, and a competitive vasopressin/oxytocin receptor antagonist (VOTra). Atosiban inhibits the oxytocin-mediated release of inositol trisphosphate from the myometrial cell membrane.

IC50 value:

Target:

As a result, there is reduced release of intracellular, stored calcium from the sarcoplasmic reticulum of myometrial cells, and reduced influx of Ca²⁺ from the extracellular space through voltage gated channels. In addition, atosiban suppresses oxytocin-mediated release of PGE and PGF from the decidua.[1][2] In human pre-term labour, atosiban, at the recommended dosage, antagonises uterine contractions and induces uterine quiescence. The onset of uterus relaxation following atosiban is rapid, uterine contractions being significantly reduced within 10 minutes to achieve stable uterine quiescence.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!