

Rat Anesthesia

Drug (Generic)	Trade Name	Dose	Freq	Route	Indications & Comments
Ketamine - lo dose	Ketaset, Ketalar	80-90 mg/kg		IP, IM	Surgical anesthesia
Xylazine SA - lo dose	Rompun	8-10 mg/kg			
Ketamine	Ketaset, Ketalar	75 mg/kg		IP	Surgical anesthesia. Not for major surgical procedure
Dexmedetomidine	Dexdomitor	0.5 mg/kg			
Pentobarbital - lo dose	Nembutal	40-50 mg/kg		IP	Surgical anesthesia
Ketamine - lo dose	Ketaset, Ketalar	31.25 mg/kg			
Xylazine SA - lo dose	Rompun	6.25 mg/kg		SC, IP	Simple to moderate surgical procedures, e.g. laparotomy, certain sterotaxic procedures
Acetylpromazine - lo dose	Acepromazine	1.25 mg/kg			
Ketamine - hi dose	Ketaset, Ketalar	37.5 mg/kg			
Xylazine SA - hi dose	Rompun	7.5 mg/kg		SC, IP	Extensive surgical procedures
Acetylpromazine - hi dose	Acepromazine	1.5 mg/kg			
Atipamezole - lo dose	Antisedan	0.5-1 mg/kg		IP, SC, IM, IV	Antagonist of ketamine/dexmedetomidine anesthesia and ketamine/xylazine anesthesia
Propofol	Diprivan 2%	100 mg/kg			
Dexmedetomidine	Dexdomitor	0.1 mg/kg		IP	A safe and practical technique for intraperitoneal anesthesia in rats providing a surgical window of 25 min and restraint for 30 min, with rapid recovery after administration of atipamezole
Fentanyl	Duragesic	0.1 mg/kg			

Rat Sedatives/Tranquilizers

Drug (Generic)	Trade Name	Dose	Freq	Route	Indications & Comments
Acetylpromazine	Acepromazine	1-2 mg/kg		IM	Light tranquilization
Diazepam	Valium	2-4 mg/kg		IP, IM	Light sedation
Xylazine	Rompun	1-3 mg/kg		IM	Light to heavy sedation

Rat Analgesics

Drug (Generic)	Trade Name	Dose	Freq	Route	Indications & Comments
Buprenorphine	Buprenex	0.01-0.05 mg/kg	q8-12h	SC, IV	Analgesia
Carprofen	Rimadyl	5 mg/kg	q12-24h	SC	Analgesia
Flunixin	Banamine	1.1-2.5 mg/kg	q12h	SC, IM	Analgesia
Ketoprofen	Ketofen	5 mg/kg	q24h	SC	Analgesia
Meloxicam - lo dose	Metacam	1-2 mg/kg	q12h	SC, PO	
Lidocaine - max dose		10 mg/kg			
Bupivacaine - max dose		6 mg/kg			

Dosages will vary depending on individual, strain and breeds. Doses should be adjusted accordingly Considerations