



Ketamine [HRP] (DAG1173)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Product Overview | Ketamine, HRP conjugate |
| Antigen Description | A cyclohexanone derivative used for induction of anesthesia. Its mechanism of action is not well understood, but ketamine can block NMDA receptors (receptors, N-methyl-D-aspartate) and may interact with sigma receptors. |
| Species | N/A |
| Conjugate | HRP |
| Format | Concentrate |
| Size | 0.5 ml |
| Preservative | None |
| Storage | 2-8°C short term, -20°C long term |

BACKGROUND

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| Introduction | Ketamine is a drug used in human and veterinary medicine. Its hydrochloride salt is sold as Ketanest, Ketaset, and Ketalar. Pharmacologically, ketamine is classified as an NMDA receptor antagonist. At high, fully anesthetic level doses, ketamine has also been found to bind to opioid μ receptors and sigma receptors. Also, ketamine interacts with muscarinic receptors, descending monoaminergic pain pathways and voltage-gated calcium channels. Like other drugs of this class such as tiletamine and phencyclidine (PCP), it induces a state referred to as dissociative anesthesia and is used as a recreational drug. |
| Keywords | Ketamine; Ketanest; Ketaset; Ketalar; KAN |