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A rapid and sensitive chiral LC-MS/MS method for the determination of ketamine and norketamine in mouse plasma, brain and cerebrospinal fluid applicable to the stereoselective pharmacokinetic study of ketamine

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Highlights

- A chiral LC-MS/MS assay for ketamine and norketamine was developed and validated.
- Analytical run time was just 5 min per injection.
- High sensitivity allowed sequential blood collection from an individual mouse.
- This method successfully revealed stereoselective profiles in mouse plasma and CNS.
- This method would be useful for studying antidepressant actions of ketamine.

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