

SCNS. 14. Evidence of antidepressant effect of Riparin I, isolated from *Aniba riparia*, in a model depression chronic in mice

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Introduction: Major Depressant Disorder is one of the most common neuropsychiatric disorders and affects 17-20% of the world population. Despite scientific efforts, its treatment still presents itself with a limited efficacy and a delayed start-up effect. In this context, natural products are a potential source of new drugs. Riparin I (Rip I), one alcamide isolated from Aniba Riparia, has presented promising results. In pre-clinic trials, it has unchained predictive effects of antidepressant and anxiolytic activities in acute behavioral models of depression and anxiety. Objectives: Facing that, the goal of the trial was to investigate the activity of Riparin I in mice exposed to the model of chronic depression induced by corticosterone (Cort). Methods: Swiss female mice, weighting 22-25g, were divided as the following: control group (vehicle - saline, 1% de tween80, 1% de DMSO, s.c., for 14 and 21 consecutive days), stressed group (CORT, 20mg/kg, s.c, for 14 or 21 days), group treated with Ripl (50 mg/kg, orally, for 8 days), group treated with fluvoxamine (Flu 50 mg/kg, orally, for 8 days). Treatments started on the 14th day of corticosterone-induced stress until the 21st day. Behavior models analyzed were as follows: tail suspension (TS) and forced swim test (FS). The corticosterone treated group presented a greater immobility time (IT) than the control group (SC: Cont.: 45 ± 7.30 ; CONT.: 108.9 ± 3.5 ; p < 0.01). Meanwhile, the groups treated with Ripl (50) and Flu(50) presented a smaller IT than the CORT group (SC: CONT.: 108.9±3.5; Ripl: 49.57±6.6; Flu: 42±13.3; p<0.01). Depressant behavior was unchanged by corticosterone administration and reverted using Ripl and Flu. Conclusions: These results allow us to suggest a possible antidepressant effect of Ripl in the corticosterone-induced animal depression model.

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