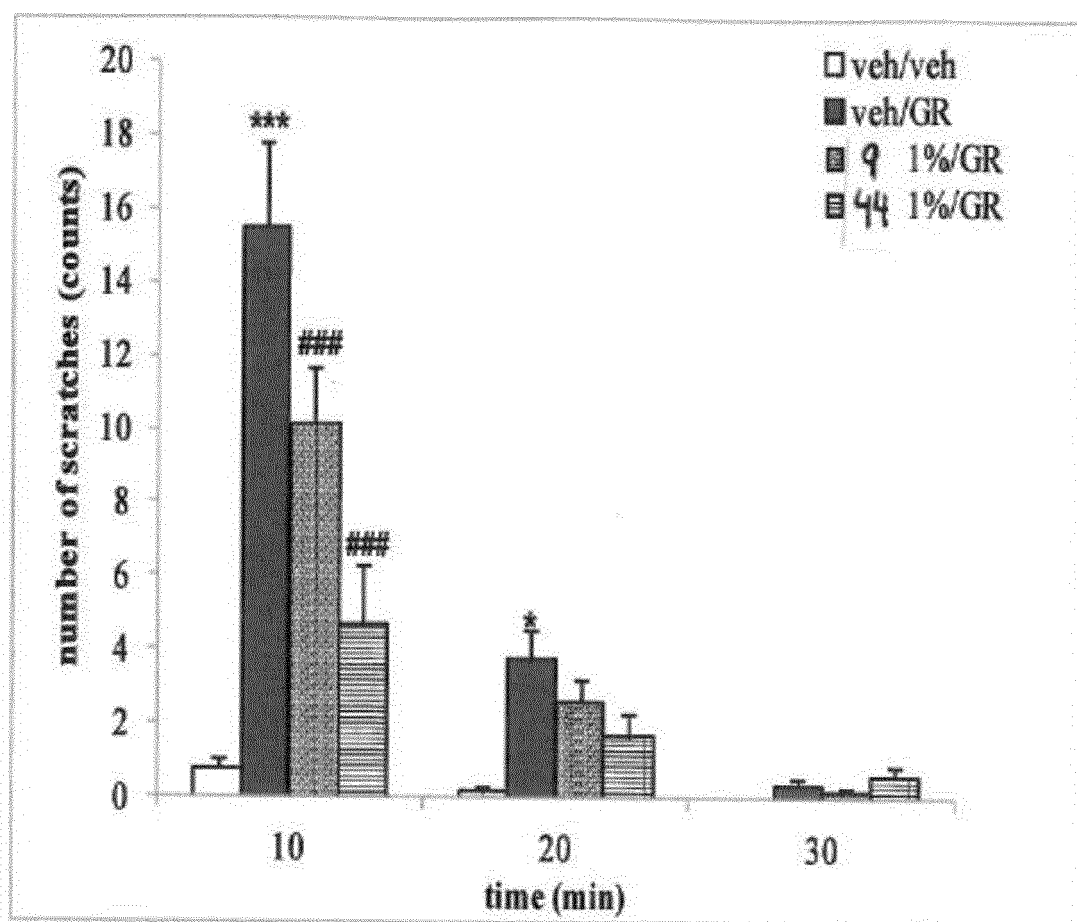


Figure 1. Time course of scratching after a topical application of Compound 9 and Compound 44 in the NK-1 agonist-induced scratching model in the gerbil.

The figure shows the time course of scratching after an intradermal injection of GR73632 (GR in the figure) and the effect of the topical application of Compound 9 and Compound 44 (1% w/v) in the scratching model.



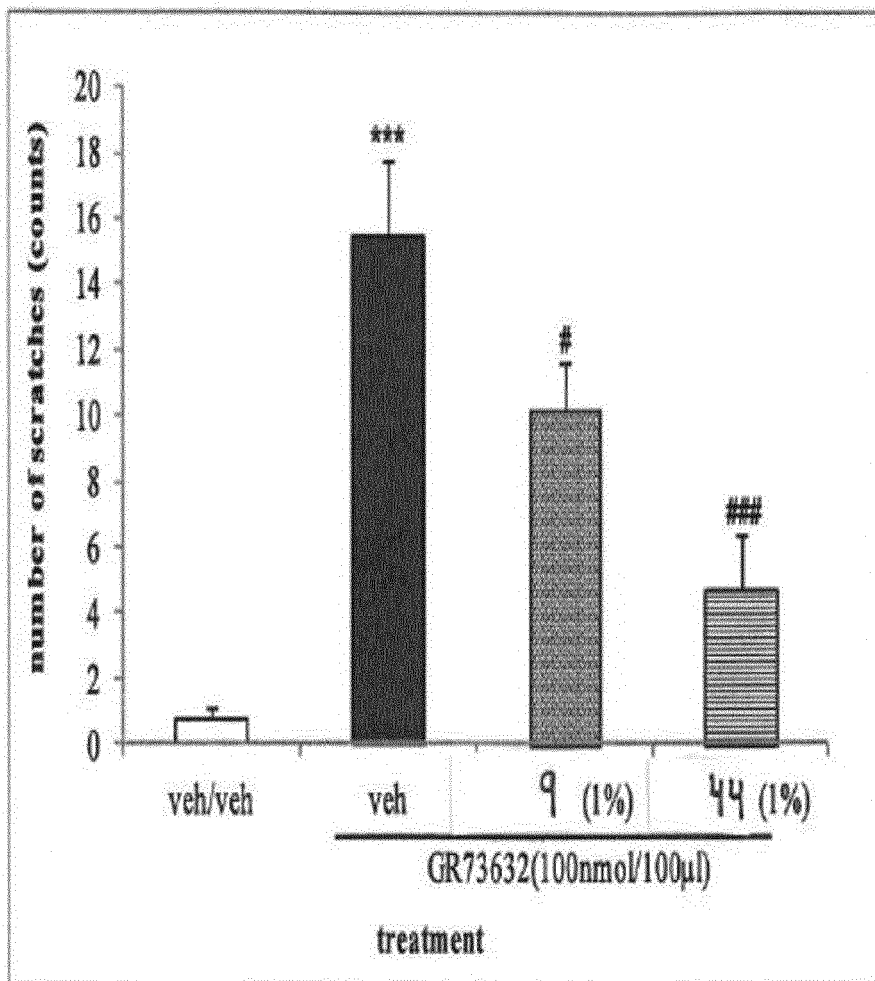
The figure shows the time course of scratching after an intradermal injection of GR73632 (GR in the figure) and the effect of the topical application of Compound 9 and Compound 44 (1% w/v) in the scratching model.

Values are expressed as mean $\pm$ SEM.

* $p < 0.05$, *** $p < 0.01$ for GR73632 vs vehicle;

$p < 0.001$ for antagonist compounds vs GR73632

Figure 1a. Effect of a topical application of Compound 9 and Compound 44 in the scratching gerbil model



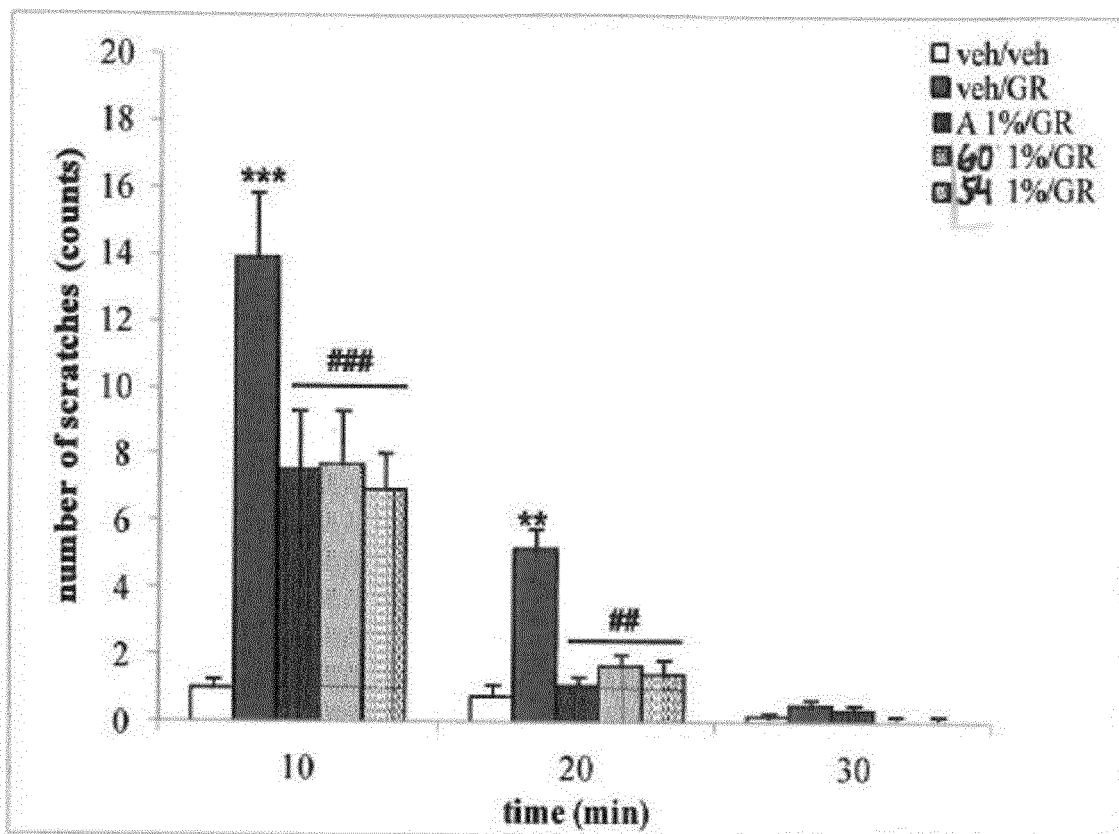
The figure shows the effect of a topical application of Compound 9 and Compound 44 (dose 1%) in the first 10 minutes observation time of scratching model.

Values are expressed as mean $\pm$ SEM.

*** $p < 0.01$ for GR73632 vs vehicle;

$p < 0.05$, ### $p < 0.01$ for test compounds vs GR73632

Figure 2. Time course of scratching after a topical application of Compound 54 and Compound 60 in the NK-1 agonist-induced scratching model in the gerbil.



5

The figure shows the time course of scratching after an intradermal injection of GR73632 (GR in the figure) and the effect of the topical application of Aprepitant (A in the figure), Compound 54 and Compound 60 (all at 1% w/v) in the scratching model.

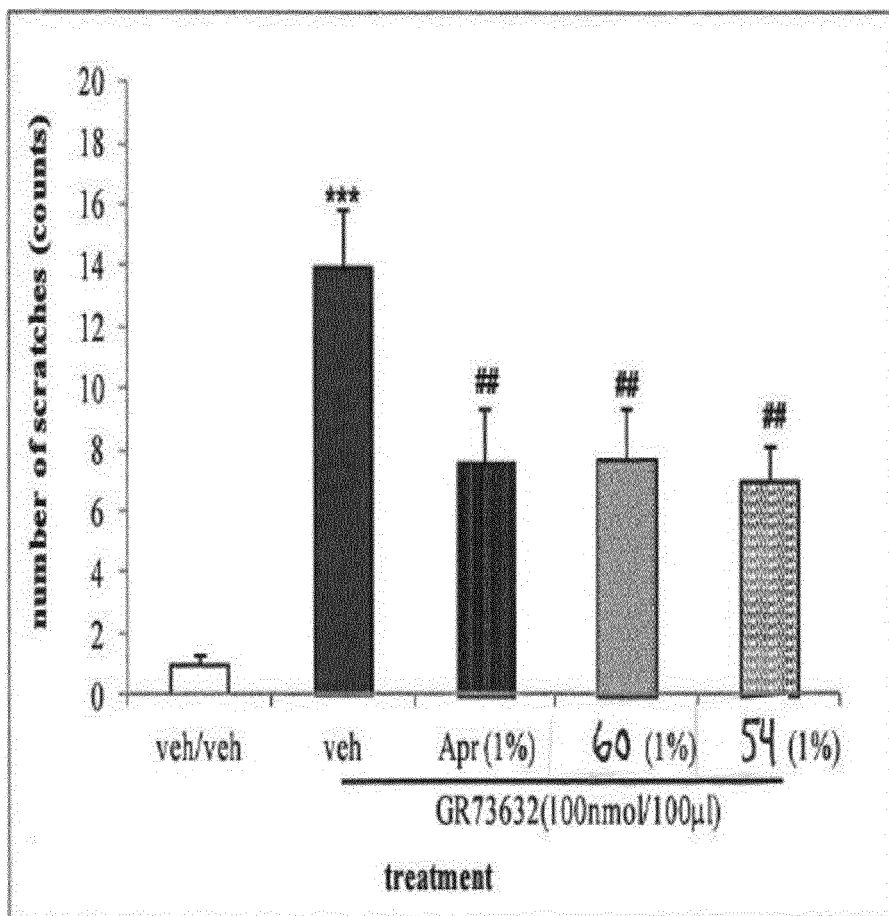
Values are expressed as mean $\pm$ SEM.

10

* $p < 0.05$, *** $p < 0.01$ for GR73632 vs vehicle;

$p < 0.001$ for antagonists compounds vs GR73632

Figure 2a. Effect of a topical application of Compound 54 and Compound 60 in the scratching gerbil model



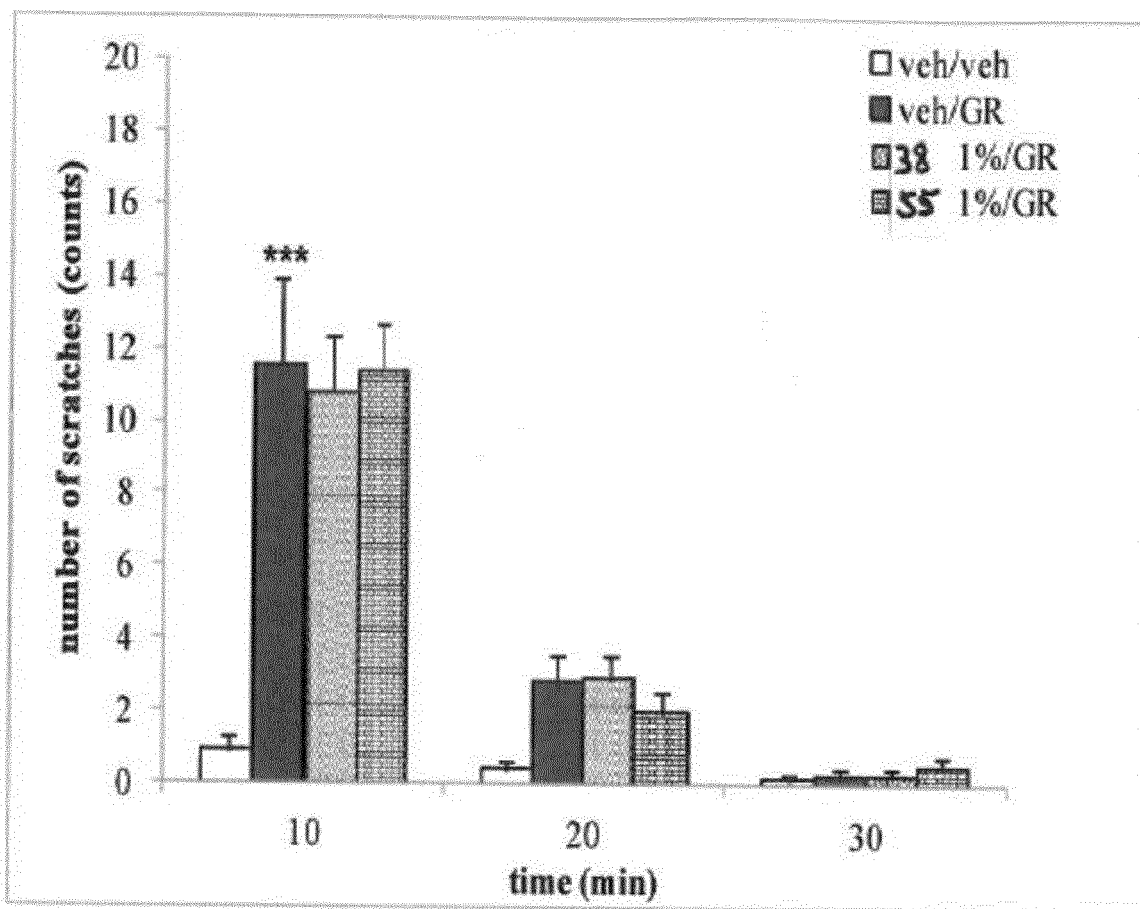
The figure shows the effect of a topical application of Aprepitant (Apr in the figure),
5 Compound 54 and Compound 60 (all at 1% w/v) in the first 10 minutes observation
time of scratching model.

Values are expressed as mean $\pm$ SEM.

*** $p < 0.01$ for GR73632 vs vehicle;

$p < 0.01$ for test compounds vs GR73632

Figure 3. Time course of scratching after a topical application of Compound 38 and Compound 55 in the NK-1 agonist-induced scratching model in the gerbil.

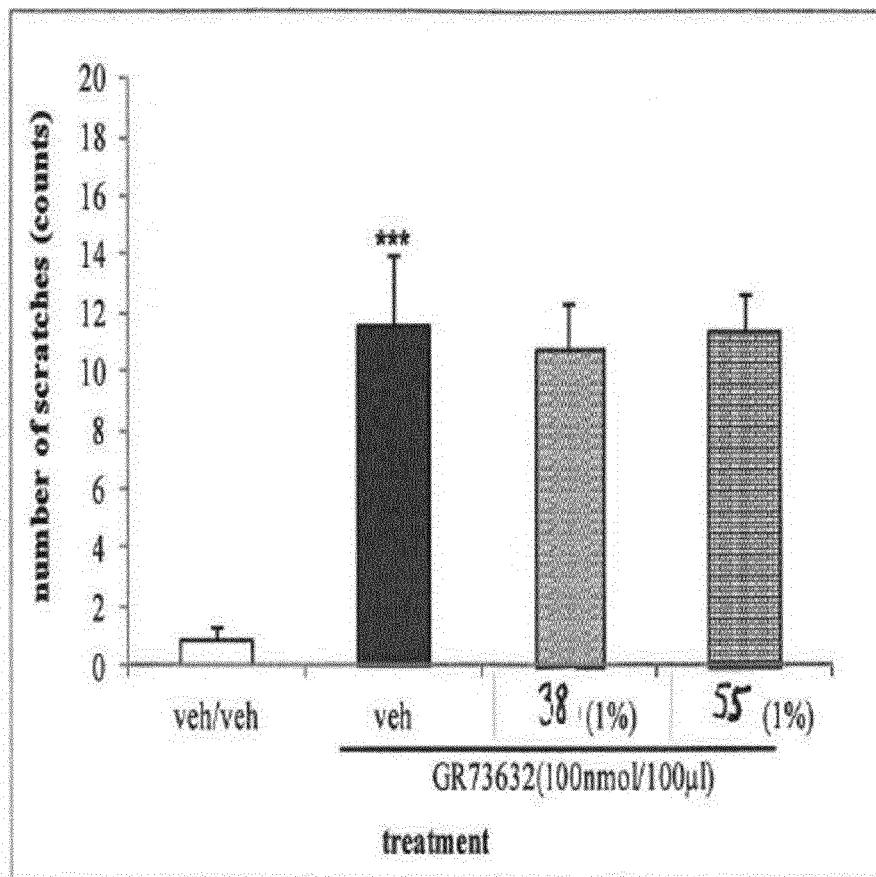


The figure shows the time course of scratching after an intradermal injection of GR73632 (GR in the figure) and the effect of the topical application of Compound 38 and Compound 55 (both 1% w/v) in the scratching model.

Values are expressed as mean $\pm$ SEM.

*** $p < 0.01$ for GR73632 vs vehicle;

Figure 3a. Effect of a topical application of Compound 38 and Compound 55 in the scratching gerbil model



The figure shows the effect of a topical application of Compound 38 and Compound 55 (dose 1%) in the first 10 minutes observation time of scratching model.

Values are expressed as mean $\pm$ SEM.

*** $p < 0.01$ for GR73632 vs vehicle;