

## New pain treatment tested in humans

## November 27 2017

Nerve growth factor signals through receptors of the tropomyosin-related kinase (Trk) family, and research in animals has shown that inhibitors of Trks A, B, and C can reduce pain. Now a new study in the *British Journal of Clinical Pharmacology* provides the first demonstration of pain relief in humans using a Trk inhibitor.

The inhibitor was compared with pregabalin, ibuprofen, and placebo, in randomized, double blind, cross-over study with 20 participants.

"One striking aspect of this study is the use of a pain challenge model to assess this novel Trk mechanism. By determining the effect of a single dose of the drug in healthy subjects, we were able to provide an early demonstration of analgesia without the need to run a large patient study," said lead author Dr. Peter Loudon, of Pfizer WRD, in the UK.

"Furthermore, the use of a range of different pain challenge models has provided some information on the quality of effect, which may help predict the best patient population for future studies."

**More information:** Peter Loudon et al. Demonstration of an antihyperalgesic effect of a novel pan Trk inhibitor PF-06273340 in a battery of human evoked pain models., *British Journal of Clinical Pharmacology* (2017). DOI: 10.1111/bcp.13448

Provided by Wiley



Citation: New pain treatment tested in humans (2017, November 27) retrieved 10 April 2024 from <a href="https://medicalxpress.com/news/2017-11-pain-treatment-humans.html">https://medicalxpress.com/news/2017-11-pain-treatment-humans.html</a>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.