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1. Introduction. Ibuprofen (3-isobutyl-4-(4-chlorophenyl)pyrazole-5-carboxylic acid) is a non-selective phosphodiesterase (PDE) inhibitor and glia cell modulator with anti-inflammatory activity (Huang et al., 2006; Schwenkgrub et al., 2017). This small molecule drug is used clinically for treatment of asthma in Japan due to its efficacy as a bronchodilator, and it has received "Fast Track ...

Ibuprofen attenuates cocaine self-administration and prime ...

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Multidisciplinary design optimization (MDO) is concerned with solving design problems involving coupled numerical models of complex engineering systems. While various MDO software frameworks exist, none of them take full advantage of state-of-the-art algorithms to solve coupled models efficiently. Furthermore, there is a need to facilitate the computation of the derivatives of these coupled ...

OpenMDAO: an open-source framework for multidisciplinary ...

Crystallization drops were prepared by mixing equal volumes (200 nl) of the protein solution and a reservoir solution and then were incubated against the reservoir at 293 or 277 K. Long and rectangular-shaped single crystals were obtained from a reservoir INDEX H07 containing 0.15 M dl-malic acid, pH 7.0 and 20% (w/v) PEG3350 at 293 K. The ...

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