



Design, synthesis and biological evaluation of new tertiary benzamides as potential anti-inflammatory agents

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Experience:

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*Lab of Natural
and Biomimetic
Products*

Market Needs:

It may have good market because they show promising anti-inflammatory activities and are available to synthesize easily.

Our Technology:

A series of new tertiary amides **4-12** have been synthesized and tested on PC3 cells (human prostate cancer cell) and evaluated their anti-inflammatory activities on inhibition of elastase release and superoxide anion generation by human neutrophils in response to FMLP/CB. We have also tested the inhibition of NF- κ B transcriptional activity for compounds **7a**, **10** and **12**. The results indicated that the benzylamide with a cyclohexene moiety may play an important functionality in anti-inflammatory activities. Compounds **7a** and **10b-10f** are promising leads for developing as potential anti-inflammatory agents.

Strength:

On the basis of SAR study, new benzylamides with potent anti-inflammatory activities were synthesized in two steps.

Competing Products: Steroids (dexamethasone), NSAIDs (ibuprofen, naproxen, diclofenac, and celecoxib); Adverse effects were reported.

Intellectual Properties:

Contact (do not need to fill out):

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