

Title (en)

NITROSATED AND NITROSYLATED PROTON PUMP INHIBITORS, COMPOSITIONS AND METHODS OF USE

Title (de)

NITROSIERTE UND NITROSYLIERTE PROTONENPUMPENHEMMER, ZUSAMMENSTELLUNGEN UND VERWENDUNGSMETHODEN

Title (fr)

INHIBITEURS DE LA POMPE A PROTON NITROSES ET NITROSYLES, COMPOSITIONS ET PROCEDES D'UTILISATION

Publication

EP 1154771 A1 20011121 (EN)

Application

EP 00910039 A 20000225

Priority

- US 0002524 W 20000225
- US 12211199 P 19990226

Abstract (en)

[origin: WO0050037A1] The present invention describes novel nitrosated and/or nitrosylated proton pump inhibitor compounds, and novel compositions comprising at least one proton pump inhibitor compound that is optionally substituted with at least one NO and/or NO₂ group, and, optionally, at least one compound that donates, transfers or releases nitric oxide, stimulates endogenous synthesis of nitric oxide, elevates endogenous levels of endothelium-derived relaxing factor or is a substrate for nitric oxide synthase, and/or at least one nonsteroidal antiinflammatory drug, selective COX-2 inhibitor antacid, bismuth-containing reagent, acid-degradable antibacterial compound, and mixtures thereof. The present invention also provides methods for treating and/or preventing gastrointestinal disorders; facilitating ulcer healing; decreasing the recurrence of ulcers; improving gastroprotective properties, anti-Helicobacter pylori properties or antacid properties of proton pump inhibitors; decreasing or reducing the gastrointestinal toxicity associated with the use of nonsteroidal antiinflammatory compounds; treating Helicobacter pylori and viral infections. The compounds and/or compositions of the present invention can also be provided in the form of a pharmaceutical kit.

IPC 1-7

A61K 31/437; **A61K 31/4184**; **A61K 31/4439**; **C07D 471/04**; **C07D 401/12**; **C07D 235/28**

IPC 8 full level

A61K 31/437 (2006.01); **A61K 31/00** (2006.01); **A61K 31/4184** (2006.01); **A61K 31/433** (2006.01); **A61K 31/4439** (2006.01); **A61K 31/444** (2006.01); **A61K 31/4706** (2006.01); **A61K 31/506** (2006.01); **A61K 45/06** (2006.01); **A61P 1/04** (2006.01); **C07D 235/28** (2006.01); **C07D 401/12** (2006.01); **C07D 471/04** (2006.01)

CPC (source: EP)

A61K 31/00 (2013.01); **A61K 31/4184** (2013.01); **A61K 31/433** (2013.01); **A61K 31/437** (2013.01); **A61K 31/4439** (2013.01); **A61K 31/444** (2013.01); **A61K 31/4706** (2013.01); **A61K 31/506** (2013.01); **A61K 45/06** (2013.01); **A61P 1/00** (2017.12); **A61P 1/04** (2017.12); **A61P 31/12** (2017.12); **A61P 33/00** (2017.12); **A61P 43/00** (2017.12); **C07D 401/12** (2013.01)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0050037 A1 20000831; AU 2005202553 A1 20050707; AU 3219600 A 20000914; AU 781133 B2 20050505; CA 2362930 A1 20000831; CA 2362930 C 20101005; EP 1154771 A1 20011121; EP 1154771 A4 20050420; JP 2002537336 A 20021105

DOCDB simple family (application)

US 0002524 W 20000225; AU 2005202553 A 20050610; AU 3219600 A 20000225; CA 2362930 A 20000225; EP 00910039 A 20000225; JP 2000600648 A 20000225