

Title (en)
CHEMICAL COMPOUNDS ACTING AS PERK INHIBITORS

Title (de)
ALS PERK-HEMMER WIRKENDE CHEMISCHE VERBINDUNGEN

Title (fr)
COMPOSÉS CHIMIQUES AGISSANT COMME INHIBITEURS DE PERK

Publication
EP 3116877 A1 20170118 (EN)

Application
EP 15714943 A 20150311

Priority

- US 201461951109 P 20140311
- IB 2015051774 W 20150311

Abstract (en)
[origin: WO2015136463A1] The invention is directed to substituted pyrrolidinone derivatives. Specifically, the invention is directed to compounds according to Formula X: wherein R41, R42, R43, R44, R45, R46, and R47 are defined herein. The compounds of the invention are inhibitors of PERK and can be useful in the treatment of cancer and diseases associated with activated unfolded protein response pathways, such as Alzheimer's disease, stroke, diabetes, Parkinson disease, Huntington's disease, Creutzfeldt- Jakob Disease, and related prion diseases, amyotrophic lateral sclerosis, myocardial infarction, neurodegeneration, cardiovascular disease, atherosclerosis, ocular diseases, and arrhythmias, more specifically cancers of the breast, colon, pancreas and lung. Accordingly, the invention is further directed to pharmaceutical compositions comprising a compound of the invention. The invention is still further directed to methods of inhibiting PERK activity and treatment of disorders associated therewith using a compound of the invention or a pharmaceutical composition comprising a compound of the invention.

IPC 8 full level
A61K 31/4365 (2006.01); **A61K 31/519** (2006.01); **A61P 25/16** (2006.01); **A61P 25/28** (2006.01); **A61P 35/00** (2006.01); **C07D 487/04** (2006.01); **C07D 495/04** (2006.01)

CPC (source: EP)
A61K 9/0019 (2013.01); **A61K 9/2009** (2013.01); **A61K 9/4858** (2013.01); **A61K 31/4365** (2013.01); **A61K 31/506** (2013.01); **A61K 31/519** (2013.01); **A61K 45/06** (2013.01); **A61P 3/10** (2017.12); **A61P 9/04** (2017.12); **A61P 9/06** (2017.12); **A61P 9/08** (2017.12); **A61P 9/10** (2017.12); **A61P 21/02** (2017.12); **A61P 25/00** (2017.12); **A61P 25/14** (2017.12); **A61P 25/16** (2017.12); **A61P 25/28** (2017.12); **A61P 27/02** (2017.12); **A61P 27/06** (2017.12); **A61P 27/10** (2017.12); **A61P 27/14** (2017.12); **A61P 35/00** (2017.12); **A61P 35/02** (2017.12); **C07D 487/04** (2013.01); **C07D 495/04** (2013.01)

Citation (search report)
See references of WO 2015136463A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2015136463 A1 20150917; EP 3116877 A1 20170118; JP 2017507967 A 20170323

DOCDB simple family (application)
IB 2015051774 W 20150311; EP 15714943 A 20150311; JP 2016556855 A 20150311