

Title (en)  
BIFUNCTIONAL ANTAGONISTS OF CYTOKINE-SENSITIVE PROTEIN KINASE ACTIVATION CASCADES AND METHODS FOR USE AS ANTI-INFLAMMATORY AGENTS

Title (de)  
AKTIVIERUNGSKASKADEN-BIFUNKTIONELLE ANTAGONISTEN VON CYTOKIN-EMPFINDLICHEN PROTEIN-KINASEN UND VERFAHREN ZUR VERWENDUNG ALS ENTZÜNDUNGSHEMMENDE MITTEL

Title (fr)  
ANTAGONISTES BIFONCTIONNELS DES CASCADES D'ACTIVATION DES KINASES SENSIBLES AUX CYTOKINES ET TECHNIQUE PERMETTANT DE LES UTILISER COMME ANTI-INFLAMMATOIRES

Publication  
**EP 1091960 A1 20010418 (EN)**

Application  
**EP 99931893 A 19990624**

Priority  
• US 9914320 W 19990624  
• US 10702698 A 19980629

Abstract (en)  
[origin: WO0000491A1] Bifunctional activation cascade antagonist compounds inhibit inflammatory responses associated with TNF- alpha and fibroblast proliferation in vivo and in vitro by blocking activation of both the c-Jun and p38 kinases. The compounds of the invention possess greater than additive activity as compared to the individual constituents of each compound. One such constituent blocks activation of c-Jun kinase while the other blocks activation of p38 kinase, in a non-overlapping manner. The compounds of the invention neither appreciably inhibit the activity of cAMP phosphodiesterase nor the hydrolysis of phosphatidic acid, and are neither cytotoxic nor cytostatic. Methods for the use of the novel compounds as anti-inflammatory agents are also described. The methods are expected to be of use in reducing or protecting a vertebrate host against inflammatory responses (for example, after angioplasty), in limiting fibrosis (for example, of the liver in cirrhosis), in inhibiting cell senescence, cell apoptosis and UV induced cutaneous immune suppression.

IPC 1-7  
**C07D 475/02; C07D 473/04; C07D 513/04; C07D 239/96; C07D 217/24; C07D 401/14; A61K 31/505; A61K 31/52**

IPC 8 full level  
**A61K 31/505** (2006.01); **A61K 31/52** (2006.01); **C07D 217/24** (2006.01); **C07D 239/96** (2006.01); **C07D 401/14** (2006.01); **C07D 473/04** (2006.01); **C07D 475/02** (2006.01); **C07D 513/04** (2006.01)

CPC (source: EP)  
**A61K 31/505** (2013.01); **A61K 31/52** (2013.01); **C07D 217/24** (2013.01); **C07D 239/96** (2013.01); **C07D 401/14** (2013.01); **C07D 473/04** (2013.01); **C07D 475/02** (2013.01); **C07D 513/04** (2013.01)

Citation (search report)  
See references of WO 0000491A1

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 0000491 A1 20000106**; AU 4830799 A 20000117; CA 2335595 A1 20000106; EP 1091960 A1 20010418

DOCDB simple family (application)  
**US 9914320 W 19990624**; AU 4830799 A 19990624; CA 2335595 A 19990624; EP 99931893 A 19990624