

Title (en)
TREATMENT OF HYPERTENSION WITH COMPOUNDS THAT INHIBIT THE DESTRUCTION OF ENKEPHALINS OR ENDORPHINS

Title (de)
Behandlung des Bluthochdrucks mit Verbindungen die die Zerstörung der Enkephaline und der Endorphine hemmen

Title (fr)
TRAITEMENT DE L'HYPERTENSION AVEC DES COMPOSES INHIBANT LA DESTRUCTION DES ENKEPHALINES OU DES ENDORPHINES

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Application
EP 00903252 A 20000112

Priority
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Abstract (en)
[origin: WO0041686A1] A new class of anti-hypertensive agent is provided by substances that inhibit the breakdown of the endogenous substances, the enkephalins and/or the endorphins. The anti-hypertensive effect of an enkephalin breakdown inhibitor is greatly enhanced by being combined with a beta adrenergic blocking agent, herein designated as beta blocker. Specifically, D-phenylalanine, an enkephalin breakdown inhibitor when used alone produces excellent blood pressure lowering in animals and man. Use of a combination of D-phenylalanine and the beta blocker propranolol provides a greatly enhanced anti-hypertensive effect in the spontaneously hypertensive rat (SHR). Blood pressure lowering by D-phenylalanine, or the latter combination, is very long lasting in the SHR and man. If the blood pressure of the rat or human is normal, D-phenylalanine has little or no effect on blood pressure. The hypotensive effect of D-phenylalanine is prevented by pretreating the SHR with naloxone or naltrexone which are specific antagonists of enkephalins or endorphins.

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Citation (search report)
• [X] US 4749688 A 19880607 - HASLANGER MARTIN F [US], et al
• [X] DD 229931 A1 19851120 - ADW DDR [DD]
• [X] GB 2286528 A 19950823 - WOODWARD ROBERT JOHN [GB]
• See references of WO 0041686A1

Designated contracting state (EPC)
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