

Title (en)

CINNAMIC ACID NITRILE METHOD OF PRODUCTION AND USE THEREOF

Title (de)

ZIMTSÄURENITRILE, VERFAHREN ZU IHRER HERSTELLUNG UND VERWENDUNG

Title (fr)

NITRILES D'ACIDE CINNAMIQUE, LEURS PROCEDES DE PREPARATION ET D'UTILISATION

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Application

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Abstract (en)

[origin: DE19941657A1] The invention relates to substituted cinnamic acid nitriles of the formula (I) wherein X = CN, COOR<4>, CONR<5>R<6>, COaryl, COalkyl, aryl, heteroaryl, R<1> = H, alkyl, arylalkyl, [4-(2-alkoxyphenyl)-1-piperazinyl]alkyl, R<2> and R<3> = independent of each other H, hydroxy, alkoxy, benzyl, R<4> = H, alkyl, [4-(2-alkoxyphenyl)-1-piperazinyl]alkyl, R<5> = H, alkyl, alkoxyalkyl, alkoxy-oxoalkyl, dialkylaminoalkyl, amino-oxoalkyl, aryl, arylalkyl, [4-(2-alkoxyphenyl)-1-piperazinyl]alkyl, morpholinoalkyl, furanyalkyl, thienylalkyl, R<6> = H, alkyl, or NR<5>R<6> together = cyclic amines such as pyrrolidine, morpholine, piperidine, subst. piperazine, whereby at least one of the radicals R<1>, R<4> or R<5> is a [4-(2-alkoxyphenyl)-1-piperazinyl]alkyl-radical, in addition to the addition thereof with pharmacologically compatible acids. The compounds are active as prophylactic and therapeutic medicaments for the treatment of benign prostatahyperplasia. A method for the production of cinnamic acid nitrile is also disclosed; an appropriately substituted benzaldehyde is reacted with a substituted acetonitrile in a Knoevenagel-condensation reaction.

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