

Title (en)

NOVEL AMINOALKYL-OXAZOLE AND AMINOALKYL-THIAZOLE CARBOXYLIC ACID AMIDES AS REGENERATION-PROMOTING SUBSTANCES FOR SENSORY ORGANS AND POST-MITOTIC TISSUE

Title (de)

NEUE AMINOALKYL-OXAZOL- UND AMINOALKYL-THIAZOLCARBONSÄUREAMIDE ALS REGENERATIONSFÖRDERNDE SUBSTANZEN FÜR SINNESORGANE UND POSTMITOTISCHE GEWEBE

Title (fr)

NOUVEAUX AMIDES D'ACIDE AMINOALKYL-OXAZOLCARBOXYLIQUE ET D'ACIDE AMINOALKYL-THIAZOLCARBOXYLIQUE COMME SUBSTANCES FAVORISANT LA RÉGÉNÉRATION POUR LES ORGANES SENSORIELS ET LES TISSUS POSTMITOTIQUES

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Application

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Abstract (en)

[origin: CA2789013A1] The present invention relates to novel aminoalkyl-oxazole and aminoalkyl-thiazole carboxylic acid amides that stimulate the endogenous regeneration of terminally differentiated cells in highly specialized organs, tissues and sensory epithelia in mammals in situ. The claimed low-molecular-weight compounds are able to induce corresponding cell biological changes such as dedifferentiation, proliferation and the subsequent terminal redifferentiation of cells of the normally post-mitotic tissue. The invention in particular relates to compounds with which a de novo formation of hair sensory cells in the organ of Corti can be obtained by inducing cell separation of supporting cells of the inner ear and hearing can be restored after hair cell loss. The compounds according to the invention for the first time enable a causal treatment of inner ear hardness of hearing caused, for example, by noise, ototoxic substances, symptoms of old age or genetic causes on the basis of regenerative biology. The invention further relates to methods for producing the compounds according to the invention, to the formulation (1) (2) thereof as pharmaceutical preparations and to the use thereof for producing pharmaceuticals for regenerative medicine.

IPC 8 full level

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