

Title (en)

PHARMACEUTICAL PREPARATIONS FOR REGULATING THE RELEASE OF INSULIN BY INFLUENCING THE β -CELL OF THE PANCREATIC ISLETS OF LANGERHANS

Title (de)

PHARMAZEUTISCHE PRÄPARATE ZUR REGULIERUNG DER INSULIN-FREISETZUNG DURCH BEEINFLUSSUNG DER β -ZELLE DER PANKREATISCHEN INSELN

Title (fr)

PREPARATION PHARMACEUTIQUE POUR LA REGULATION DE LA LIBERATION DE L'INSULINE PAR ACTION SUR LES CELLULES β DES ILOTS PANCREATIQUES

Publication

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Application

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Priority

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Abstract (en)

[origin: DE19823829A1] The invention relates to the use of melatonin and/or its chemically modified derivatives for producing pharmaceutical preparations for regulating the release of insulin by influencing the β -cell of the pancreatic islets of Langerhans. When used according to the invention, melatonin and/or its chemically modified derivatives have the effect of reducing insulin via membrane-bound G-protein-coupled receptors, gain timer significance through the melatonin receptor since the release of insulin by the pancreatic islets of Langerhans is subject to circadian and ultradian rhythms and significantly statistically reduce the stimulated release of insulin by the pancreatic islets of Langerhans through the melatonin receptor in pharmacological (5 μ M) and physiological (0.2 nM) doses.

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