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ΤI

Carbazates as potent inhibitors of hormone-sensitive lipase.

AU

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CS

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SO

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DT

Article

LA

English

ED

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AB

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The central role of adipose tissue hormone-sensitive lipase in regulating fatty acid metabolism makes it a potential pharmacological target for the prevention of peripheral insulin resistance in obese, prediabetic and diabetic individuals. The synthesis of a new series of carbazates is presented. Modification of the phenolic 4-position in a series of 1,2,3,4-tetrahydroisoquinoline and morpholine derived carbazates, yielded inhibitors of the catalytic activity of this enzyme with nanomolar potency.
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CC

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Biochemistry studies - General 10060
Biochemistry studies - Lipids 10066
Enzymes - General and comparative studies: coenzymes 10802
Pathology - Therapy 12512
Metabolism - General metabolism and metabolic pathways 13002
Metabolism - Metabolic disorders 13020
Endocrine - Pancreas 17008
Pharmacology - General 22002
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IT

Major Concepts Enzymology (Biochemistry and Molecular Biophysics); Pharmacology

IT

Parts, Structures, & Systems of Organisms adipose tissue

IT

Diseases diabetes: endocrine disease/pancreas, metabolic disease, drug therapy Diabetes Mellitus (MeSH)

IT

Diseases obesity: nutritional disease Obesity (MeSH)

IT

Chemicals & Biochemicals 1,2,3,4-tetrahydroisoquinoline; carbazates: enzyme inhibitor-drug; fatty acid: metabolism; hormone-sensitive lipase: inhibition; morphine

IT

Miscellaneous Descriptors peripheral insulin resistance

RN

91-21-4 (1,2,3,4-tetrahydroisoquinoline) 9001-62-1 (hormone-sensitive lipase) 57-27-2 (morphine)