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## Patent Search

Invention Title	PREPARATION, METHOD AND USES OF AMIDE BENZOTHIAZOLE DERIVATIVES FOR THE TREATMENT OF DIABETES
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### Inventor

Name	Address	Country	Nationality
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### Applicant

Name	Address	Country	Nationality
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### Abstract:

Abstract The present invention is related to the use of benzothiazole derivatives for the diabetes treatment. A method has been developed to synthesize benzothiazole derivatives from 2-amino benzothiazole using chloroacetyl chloride. Upon acetylation, the intermediate is simply condensed with various aromatic amines. The compound formation is confirmed by the spectral studies. The antidiabetic activity of the compounds is found to be good.

### [Complete Specification](#)

PREPARATION, METHOD AND USES OF AMIDE BENZOTHIAZOLE DERIVATIVES FOR THE TREATMENT OF DIABETES

#### Field of Invention

The present invention relates to the field of compounds associated with the synthetic drugs for the treatment of diabetes. Particularly, the present invention containing amide benzothiazole structure and with a therapeutic effect on diabetes. The present invention also relates to a method of preparation of compounds for treating diabetes. These novel methods are scalable for industrial production and employ safer, more stable and less costly starting material and process.

#### Background of Invention

Diabetes and its complications are foremost causes of early death in most countries. Forty-eight percent of deaths due to diabetes are in people under the age of 60. Type 1 or noninsulin-dependent diabetes mellitus (NIDDM) is the most widespread form of diabetes and is characterized by insulin resistance or reduced insulin sensitivity, combined with reduced insulin secretion and hyperglycemia. Due to their adverse effects, most of the current treatments are considered to be unsatisfactory in terms of prevention of complications and preservation of quality of life. One of the desirable approaches to achieve this goal would be to identify agents that promote glucose dependent insulin secretion with minimal/ no side effects.

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