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Antioxidant and Antidiabetic activity of chalcone cb6 (E)-3-(4-Flourophenyl)-1-Phenylprop-2-en-1-one

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Abstract

Diabetes is a metabolic disorder having serious consequence on health. The pharmacological treatment of diabetes mellitus may involve the use of medications as well as proper diet. Chalcones are flavonoid precursors and have shown a number of antioxidant properties. The current study was conducted to evaluate the antidiabetic and antioxidant activity of newly synthesized chalcone derivative cb6 (E)-3-(4-flourophenyl)-1-phenylprop-2-en-1-one. Hyperglycemia was induced by using alloxan monohydrate intraperitoneally (150mg/kg). In this study 50 albino wister rats were divided into 5 groups. First group was on normal routine diet; second group was given alloxan monohydrated; group 3 was given Glibenclamide; group 4 (treated 1) was treated by using research compound at dose rate of 5ml/kg; group 5 (treated 2) was given research compound at dose rate of 10ml/kg. Antidiabetic activity of chemical compound was determined by performing biochemical and histopathological analysis. Antidiabetic activity of chemical compound in comparison to the activity of synthetic drug glibenclamide was determined. The statistical analysis of variance (ANOA) was performed and the significance among different groups was determined by DMR (Dunca Multiple Range) test. Results of study indicated that chalcone cb6 significantly reversed the alloxaninduced hyperglycemia by improving biochemical and oxidative stress parameters. Histo h analysis also showed the antioxidant and antihyperglycemic potential of chalcone cb6. cb6 improved the activity of endocrine tissues of pancreas by decreasing the oxidative stress by its free radical scavenging activity.

Biography:

Hafsa iqbal has completed her pharm-D (Doctor of pharmacy) at the age of 23 years from university f agriculture Faisalabad. Now she is student of m.phill pharmacology in university of agriculture Fisalabad, Pakistan.

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