BIOTECH CONSORTIUM INDIA LIMITED

ANTI-DIABETIC AND HYPOLIPIDEMIC COMPOUND

TECHNOLOGY AVAILABLE FOR TRANSFER

BACKGROUND

The invention discloses a New Chemical Entity (NCE) isolated from *Eugenia jambolana* showing hypoglycemic and hypolipidemic activity. The technology is developed at the Department of Biochemistry of the University College of Medical Science, Delhi University.

TECHNOLOGY DETAILS

The NCE has been isolated and identified from fruit-pulp of *Eugenia jambolana.* The NCE structure has been elucidated by UV, IR and NMR spectra. The compound was tested in db/db mice having blood glucose level of 500-600mg/dl. Serum trigyceride and LDL decreased significantly in comparison with Glibenclamide . The mechanism of action of the compound has been established (insulin secretion and peripheral insulin sensitivity is increased). The toxicity studies have been completed (liver, kidney function). The experimental data suggests that the NCE is therapeutically more effective than Glibenclamide in all the aspects (body weight, blood urea, plasma creatinine, microalbuminuria).

APPLICATIONS

The NCE is beneficial for the treatment of NIDDM patients (Non-insulin dependent diabetes mellitus) with cardiovascular complications. Used for treating hyperglycemia-induced atherosclerosis.

ADVANTAGES

- Control the glucose level for longer duration
- Reduces cholesterol, LDLC, trigycerides and enhances HDLC
- Hypolipidemic activity
- Antiartherosclerotic activity
- Antiapoptitic activity
- Nephroprotective

STATE OF DEVELOPMENT

The structure of the compound has been elucidated. The scheme for chemical synthesis of the compound has been established.

INTELLECTUAL PROPERTY

US and Indian Patent Granted

LICENSING OPPORTUNITY

BCIL is Looking for a industrial partner for the clinical development of the molecule by licensing or validation of the molecule through option agreement.

CONTACT:
BIOTECH CONSORTIUM INDIA LIMITED
V Floor, Anuvrat Bhawan
210, Deen Dayal Upadhyaya Marg
New Delhi:110 002
Phone: +91-11-23219064-67, 23219053 (Direct) Fax: +91-11-23219063
Email: info.bcil@nic.in Website: www.bcil.nic.in