**Therapeutic Candidate for Cardiac and Metabolic Diseases**

**OCR Number:** OCR 6835

**Description:**

**Recombinant Protein for Treatment of Coronary Artery Disease (CAD) and Metabolic Syndrome (MetS)**

- Genetic analysis of a kindred displaying marked early onset CAD, type 2 diabetes, hypertension and hypertriglyceridemia identified mutations in a specific gene.
- The protein encoded by this gene is ubiquitously expressed and found in the plasma, the mutations result in loss of its enzymatic function.
- In *in vitro* studies the wild-type enzyme increased Insulin release in the presence of high glucose (top figure) while *in vivo* treatment of mice markedly dropped blood glucose levels (lower figure).
- This recombinant protein is a promising candidate for treatment of CAD, MetS and related disorders.
- **IP status:** provisional patent application filed.

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