

## عنوان مقاله:

Cloning, Expression, Purification and CD Analysis of Recombinant Human Betatrophin

## محل انتشار:

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## خلاصه مقاله:

Betatrophin is a member of the angiopoietin-like (ANGPTL) family that has been implicated in both triglyceride and glucose metabolism. The physiological functions and molecular targets of this protein remain largely unknown; hence, a purified available protein would aid study of the exact role of betatrophin in lipid or glucose metabolism. In this study, we cloned the full-length cDNA of betatrophin from a human liver cDNA library. Betatrophin was expressed in the pET-20b-E. coli BL21 (DE3) system and purified by immobilized metal-affinity chromatography and ion-exchange chromatography. Circular dichroism spectroscopy revealed  $\alpha$ -helix as the major regular secondary structure in recombinant betatrophin. The production method is based on commonly available resources; therefore, it can be readily implemented.

## کلمات کلیدی:

CD spectroscopy, Human betatrophin, Recombinant protein

## لینک ثابت مقاله در پایگاه سیویلیکا:

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