



LD Biopharma, Inc.
9924 Mesa Rim Road Suite B
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<http://www.ldbiopharma.com>

- PRODUCT DATA SHEET -

Name of Product: Recombinant Human Betatrophin Protein
Catalog Number: hRP-1384
Manufacturer: LD Biopharma, Inc.

Introduction

Human betatrophin is a secreted protein, which mainly expressed in human liver and fat tissues to regulate lipid metabolism and beta cell proliferation.

Full-length mature human Betatrophin cDNA (177aa) was constructed with fully codon optimization strategy and expressed in non-fusion form as inclusion bodies. The final product was refolded using our unique “temperature shift inclusion body refolding” technology and chromatographically purified.

Gene Symbol: Betatrophin (C19orf80, ANGPTL8; PRO1185; TD26; PVPA599)
Accession Number: NP_061157
Species: Human
Size: 50 µg / Vial
Composition: 1.0 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, Sucrose and DTT.
Storage: In Liquid. Keep at -80°C for long term storage. Product is stable at 4 °C for at least 30 days.

Key References

Peng Yi, et al., *Betatrophin: A hormone that controls pancreatic b cell proliferation.* Cell. 04.008 (2012)

Fu,Z., et al., *Lipasin, thermoregulated in brown fat, is a novel but atypical member of the angiopoietin-like protein family.* Biochem. Biophys. Res. Commun. 430 (3), 1126-1131 (2013)

Quagliarini,F., et al., *Atypical angiopoietin-like protein that regulates ANGPTL3.* Proc. Natl. Acad. Sci. U.S.A. 109 (48), 19751-19756 (2012)



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Applications

1. May be used for in vitro human Betatrophin signaling pathway regulation study for human pancreatic beta cell differentiation.
2. As antigen for specific antibody production.

Quality Control

Purity: > 90% by SDS-PAGE.

Recombinant Protein Sequence

MTLHRNEYGIASILDSYQCTAEISLADLATIFFAQFVQEATYKEVSKMVKDALTAIEKPTGDEQ
SSGCLLENQLPAFLEELCHEKEILEKYGHSDCCSQSEGRHNCFLAHKKPTPASIPLFQVPEPVT
SCEAYEEDRETFMKNFIYEIARRHPFLYAPTILLWAARYDKIIPSCCKAENAVECFQTKAATVT
KELRESSGGSHHHHHHGSENLYFQGAPMGGPELAQHEELTLLFHGTLQLGQALNGVYRTEGRL
TKARNSLGLYGRTIELLGQEVSRGRDAAQELRASLLETQMEEDILQLQAEATAEVLGEVAQAQK
VLRDSVQRLEVQLRSAWLGPAYREFEVLKAHADKQSHILWALTGHVQRQRREMVAAQOHLRQIQ
ERLHTAALPA