



Recombinant Protein Technical Manual

Recombinant Human Biotinidase/BTD Protein (His Tag)(Active)

RPES3578

Product Data:

Product SKU: RPES3578

Size: 10µg

Species: Human

Expression host: HEK293 Cells

Uniprot: P43251

Protein Information:

Molecular Mass: 58.2 kDa

AP Molecular Mass: 66-76 kDa

Tag: C-His

Bio-activity: Measured by its ability to hydrolyze biocytin to lysine and biotin. The specific activity is >500pmol/min/µg.

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: BTD

Immunogen Information:

Sequence: Met 1-Asp543

Background:

Biotinidase, also known as biotinase and BTD, is a ubiquitous mammalian cell enzyme which expressed at high levels in the liver, serum, and kidney. Its primary function is to cleave biotin from biocytin, preserving the pool of biotin for use as a cofactor for biotin dependent enzymes, namely the 4 human carboxylases. Biotinidase also recycles biotin from enzymes in the body that use it as a helper component in order to function. These enzymes, known as carboxylases, are important in the processing of fats, carbohydrates, and proteins. Biotin is attached to these carboxylase enzymes through an amino acid (the building material of proteins) called lysine, forming a complex called biocytin.