# Active Recombinant Human BTD, His-tagged

**Cat. No.** BTD-8392H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human BTD (Ala42-Asp543), fused with a C-terminal 6-His tag, was expressed in CHO Cells. |
| **Species** | Human |
| **Source** | CHO |
| **ProteinLength** | 42-543 a.a. |
| **Description** | The protein encoded by this gene functions to recycle protein-bound biotin by cleaving biocytin (biotin-epsilon-lysine), a normal product of carboxylase degradation, resulting in regeneration of free biotin. The encoded protein has also been shown to have biotinyl transferase activity. Mutations in this gene are associated with biotinidase deficiency. Multiple transcript variants encoding different isoforms have been described. |
| **Predicted N Terminal** | Ala42 |
| **Form** | Supplied as a 0.2 μm filtered solution in NaH2PO4, NaCl, EDTA and DTT. |
| **Bio-activity** | Measured by its ability to hydrolyze biocytin to lysine and biotin. The specific activity is >700 pmol/min/μg, as measured under the described conditions. |
| **Molecular Mass** | Predicted Molecular Mass:58 kDaSDS-PAGE:65-80 kDa, reducing conditions |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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| **Endotoxin** | < 1.0 EU per 1 μg of the protein by the LAL method. |
| **Purity** | >95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain at 5 μg per lane. |
| **Storage** | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.6 months from date of receipt, -70 °C as supplied.3 months, -70 °C under sterile conditions after opening. |
| **Shipping** | The product is shipped with dry ice or equivalent. Upon receipt, store it immediately at the temperature recommended below. |

## GENE INFORMATION

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| **Gene Name** | BTD biotinidase [ Homo sapiens (human) ] |
| **Official Symbol** | BTD |
| **Synonyms** | BTD; biotinidase; biotinase; NP_000051.1; NP_001268652.1; NP_001268653.1; NP_001268654.1; NP_001268655.1; EC 3.5.1.12 |
| **Gene ID** | 686 |
| **mRNA Refseq** | NM_000060 |
| **Protein Refseq** | NP_000051 |
| **MIM** | 609019 |
| **UniProt ID** | P43251 |

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| **Chromosome Location** | 3p25 |
| **Pathway** | Defects in vitamin and cofactor metabolism; Metabolism of vitamins and cofactors; Metabolism of water-soluble vitamins and cofactors |
| **Function** | biotin carboxylase activity; biotinidase activity |

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