

**BTD, 44-545aa, Human, His-tag, Baculovirus**

**Cat.NO.: TP01373**

3th Edition

**Synonyms:** Biotinidase isoform 1, BTD, biotinidase

**Description:** BTD, also known as biotinidase isoform 1, is a member of the nitrilase superfamily, which consists of 12 families of nitrilases, amidases, carbamylases, and N-acyltransferases. It catalyzes the hydrolysis of biocytin, the product of biotin-dependent carboxylase degradation, to biotin and lysine. It may have an important regulatory role in chromatin/DNA function. Recombinant human BTD, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

**Form:** Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.

**Molecular Weight:** 57.8kDa (510aa), 50-70kDa (SDS-PAGE under reducing conditions)

**Sequences:**

AHTGEESVADHHEAEYYVAAVYEHPSILSLNPLALISRQEALELMNQNLDIYEQQVMTAAQKDVQIIVFPEDGIHG  
FN FTRTSIYPFLDFMPSPQVVRWNPCLPHRFNDTEVLQRLSCMAIRGDMFLVANLGTKEPCHSSDPRCPKDG  
RYQF NTNNVFSNNGTLVDYRKHNLIFYEAAFDVPLKVDLITFDTPFAGRFGIFTCFDILFFDPAIRVLRD  
YKVKHVVYPTAW MNQLPLLAIEIQKAFAVAFGINVLAANVHHPVLGMTGSGIHTPLESFWYHDMENPKSH  
LIAQVAKNPVGLIGAENA TGETDPSHSKFLKILSGDPYCEKDAQEVHCDEATKWNVNAPPTFHSEMMYDN  
FTLVPVWGKEGYLHVCSNGLCC YLLYERPTLSKELYALGVFDGLHTVHGTYIQVCALVRCGGLGFDTCGQ  
EITEATGIFEHLWGNFSTSYIFPLFLTS GMTLEVPDQLGWENDHYFLRKSRLSSGLVTAALYGRLYERDLE  
HHHHHH

**Purity:** > 95% by HPLC

**Concentration:** 0.25mg/ml (determined by Absorbance at 280nm)

**Endotoxin Level:** <1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.