

Datasheet for ABIN7194393 **BTD Protein (His tag)**

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Overview

Quantity:	50 µg
Target:	BTD
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This BTD protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Biotinidase/BTD Protein (His Tag)(Active)
Sequence:	Met 1-Asp543
Characteristics:	A DNA sequence encoding the human BTD (P43251) (Met1-Asp543) with a C-terminal polyhistidine tag was expressed.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to hydrolyze biocytin to lysine and biotin. The specific activity is >500pmol/min/µg.

Target Details

Target:	BTD
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Target Details

Alternative Name:	Biotinidase/BTD (BTD Products)
Background:	<p>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.</p> <p>Synonym: BTD</p>
Molecular Weight:	58.2 kDa
UniProt:	P43251

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C, -20 °C, -80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>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.</p>