

## Mouse Biotinidase (BTD) ELISA Kit-Sandwich

**Cat. No.: EK6F768**

**Product Type: Animal Immunoassay Kits**

**Size: 48T;96T**

### Product Overview

BioVenic Mouse Biotinidase (BTD) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse BTD in serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids using a Sandwich ELISA method. For research use only.

### Specifications

|                    |                                                                                                       |
|--------------------|-------------------------------------------------------------------------------------------------------|
| Assay Type         | ELISA-Sandwich                                                                                        |
| Specificity        | The assay kit is specific for Mouse Biotinidase (BTD).                                                |
| Target Species     | Mouse                                                                                                 |
| Species Reactivity | Mouse                                                                                                 |
| Detection Range    | 0.17-10 ng/mL                                                                                         |
| Reproducibility    | Intra-Assay: CV < 10%; Inter-Assay: CV < 12%                                                          |
| Assay Time         | Around 90 min                                                                                         |
| Sample Requirement | Serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids. |

### Target Information

Biotinidase catalytically releases biotin from biocytin, a product of the degradation of biotin-dependent carboxylases. As a hydrolase, biotinidase cleaves biotin from biotinylated peptides (such as biotin- $\epsilon$ -lysine) and from biotin itself (e.g., biotin resulting from degradation by biotinylase), thus releasing free biotin for cellular reuse. This process is crucial for maintaining the biotin cycle, as biotin serves as a coenzyme for numerous carboxylases involved in vital metabolic processes like glycolysis, fatty acid synthesis, and amino acid metabolism. Biotinidases are particularly important in the nervous system, playing significant roles in neuronal myelination and axon regeneration.

|                  |                       |
|------------------|-----------------------|
| Target/Biomarker | Mouse BTD             |
| Target Synonym   | Biotinase             |
| Gene ID          | <a href="#">26363</a> |

**Shipping and Storage**

This product is shipped with gel ice packs. It is recommended to store at 2-8 °C (Up to 6 months).

---

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.