

# Recombinant Human BRDT Protein (N21-E137), His/SUMO tagged

Cat. No. BRDT-1249H Lot. No. (See product label)

## SPECIFICATION

**Product Overview** Recombinant Human 6His-SUMO-BRDT(N21-E137) Protein was expressed in E. coli.

**Species** Human

**Source** E.coli

**ProteinLength** N21-E137

### Description

Testis-specific chromatin protein that specifically binds histone H4 acetylated at 'Lys-5' and 'Lys-8' (H4K5ac and H4K8ac, respectively) and plays a key role in spermatogenesis. Required in late pachytene spermatocytes: plays a role in meiotic and post-meiotic cells by binding to acetylated histones at the promoter of specific meiotic and post-meiotic genes, facilitating their activation at the appropriate time. In the post-meiotic phase of spermatogenesis, binds to hyperacetylated histones and participates in their general removal from DNA. Also recognizes and binds a subset of butyrylated histones: able to bind histone H4 butyrylated at 'Lys-8' (H4K8ac), while it is not able to bind H4 butyrylated at 'Lys-5' (H4K5ac). Also acts as a component of the splicing machinery in pachytene spermatocytes and round spermatids and participates in 3'-UTR truncation of specific mRNAs in post-meiotic spermatids. Required for chromocenter organization, a structure comprised of peri-centromeric heterochromatin.

**Form** Liquid

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                       |   |
|-----------------------|---|
| <b>Endotoxin</b>      | < 0.01 EU per µg of the protein   |
| <b>Purity</b>         | 90%   |
| <b>Stability</b>      | Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.   |
| <b>Storage</b>        | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| <b>Storage Buffer</b> | Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol   |
| <b>Shipping</b>       | It is shipped out with blue ice.  |

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | BRDT bromodomain, testis-specific [ Homo sapiens (human) ]   |
| <b>Official Symbol</b> | BRDT   |
| <b>Synonyms</b>        | BRDT; bromodomain, testis-specific; bromodomain testis-specific protein; BRD6; cancer/testis antigen 9; CT9; RING3-like protein; |
| <b>Gene ID</b>         | 676  |
| <b>mRNA Refseq</b>     | NM_001242805   |
| <b>Protein Refseq</b>  | NP_001229734   |
| <b>MIM</b>             | 602144   |

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UniProt ID

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