

## Active Recombinant Human BRDT, His&FLAG-tagged

**Cat. No.** BRDT-37H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human BRDT corresponding to amino acids 21-137 that contains the bromodomain sequences of BRDT (accession number NP_001717.2) was expressed in E. coli and contains an N-terminal His tag and C-terminal FLAG tag.                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | 21-137 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | BRDT is similar to the RING3 protein family. It possesses two bromodomain motifs and a PEST sequence (a cluster of proline, glutamic acid, serine, and threonine residues), characteristic of proteins that undergo rapid intracellular degradation. The bromodomain functions as a "reader" of epigenetic histone marks and regulates chromatin structure and gene expression by linking associated proteins to the recognized acetylated nucleosomal targets. |
| <b>Form</b>             | 25 mM HEPES pH 7.5, 150 mM NaCl and 5% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Bio-activity</b>     | Binding specificity for acetylated H2BK12/15, H3K9/14/18/23, H4K12, H4K5/8, H4K8/12, H4K12/16, H4K5/12, H4K5/8/12/16 and H4K5/8/12/16.                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | 20 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Applications</b>     | Binding assays, inhibitor screening, and selectivity profiling.                                                                                                                                                                                                                                                                                                                                                                                                 |

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|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>             | Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. |
| <b>Concentration</b>       | 1.9 mg/ml                                                                                                                                                                             |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                       |
| <b>Gene Name</b>           | BRDT bromodomain, testis-specific [ Homo sapiens ]                                                                                                                                    |
| <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                                                                                                                                                                                |
| <b>UniProt ID</b>          | Q58F21                                                                                                                                                                                |
| <b>Chromosome Location</b> | 1p22.1                                                                                                                                                                                |
| <b>Function</b>            | histone binding; protein serine/threonine kinase activity; transcription coactivator activity;                                                                                        |

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