

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

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Endotoxin	< 0.01 EU per µg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	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.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

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

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UniProt ID

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