

Datasheet for ABIN2669698

BRDT Protein (AA 21-137) (His tag,DYKDDDDK Tag)[Go to Product page](#)**2** Images

Overview

Quantity:	100 µg
Target:	BRDT
Protein Characteristics:	AA 21-137
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BRDT protein is labelled with His tag,DYKDDDDK Tag.
Application:	Binding Studies (Bind), Screening Assay (ScA)

Product Details

Characteristics:	The peptide 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 with an observed molecular weight of 20 kDa. It shows 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.
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Target Details

Target:	BRDT
Alternative Name:	BRDT (BRDT Products)
Background:	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

Target Details

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.

Molecular Weight: 20 kDa

Application Details

Application Notes: Recombinant BRDT (21-137) is suitable for use in binding assays, inhibitor screening, and selectivity profiling.

Restrictions: For Research Use only

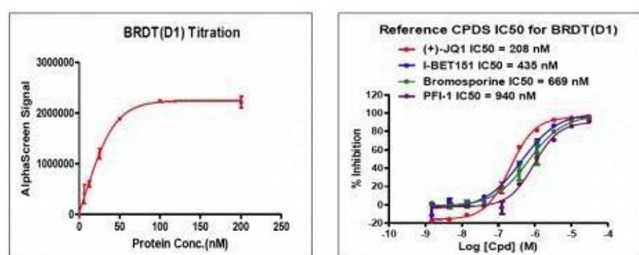
Handling

Handling Advice: Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

Storage: -80 °C

Storage Comment: Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation.

Images



Screening Assay

Image 1. Recombinant BRDT (21-137) activity using AlphaScreen. BRDT (21-137) titration and inhibition were assessed using an AlphaScreen® assay. Titration curves were generated to show signal response in the presence of modified peptide substrate at increasing protein concentrations. An IC₅₀ dose response assessment of reference compounds JQ1, I-BET151, Bromosporine and PFI-1 is also shown. This data was generated and kindly provided courtesy of ChemPartner.



Western Blotting

Image 2. Recombinant BRDT (21-137) protein gel. BRDT (21-137) protein was run on a 10% SDS-PAGE gel and stained with Coomassie blue.