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Datasheet for ABIN2669695

BPTF Protein (AA 2791-2911) (His tag,DYKDDDDK Tag)

2 Images

Overview

Quantity:	100 µg
Target:	BPTF
Protein Characteristics:	AA 2791-2911
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BPTF protein is labelled with His tag,DYKDDDDK Tag.
Application:	Binding Studies (Bind), Screening Assay (ScA)

Product Details

Characteristics: The peptide corresponding to amino acids 2791-2911 that contains the bromodomain sequences of BPTF / FALZ (accession number NP_872579.2) was expressed in E. coli and contains an N-terminal His tag and C-terminal FLAG tag with an observed molecular weight of 20.3 kDa.

Target Details

Target:	BPTF
Alternative Name:	BPTF / FALZ (BPTF Products)
Background:	Bromodomain PHD finger transcription factor (BPTF), also known as Fetal Alzheimer antigen (FALZ), is a histone-binding component of NuRF (nucleosome-remodeling factor), a complex which catalyzes ATP-dependent nucleosome sliding and facilitates transcription of chromatin.

Target Details

BPTF protein contains a DNA-binding domain, a zinc finger motif and a bromodomain. Bromodomains recognize acetylated histone lysine residues and function as 'readers' of these epigenetic histone marks to regulate chromatin structure and gene expression by linking associated proteins to the acetylated nucleosomal targets. BPTF also specifically recognizes H3 tails trimethylated on lysine 4 (H3K4me3), which mark transcription start sites of virtually all active genes. It may also regulate transcription through direct binding to DNA or transcription factors.

Molecular Weight: 20.3 kDa

Application Details

Application Notes: Recombinant BPTF / FALZ (2791-2911) is suitable for use in binding assays, inhibitor screening, and selectivity profiling.

Restrictions: For Research Use only

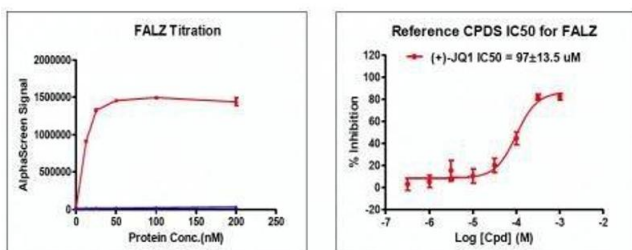
Handling

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

Storage: -80 °C

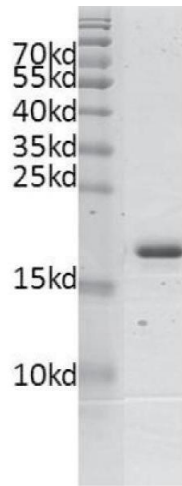
Storage Comment: Recombinant proteins in solution are temperature sensitive and must be stored at -80°C to prevent degradation.

Images



Screening Assay

Image 1. Recombinant BPTF / FALZ (2791-2911) activity using AlphaScreen. BPTF / FALZ (2791-2911) 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 compound JQ1 is also shown. This data was generated and kindly provided courtesy of ChemPartner.



Western Blotting

Image 2. Recombinant BPTF / FALZ (2791-2911) protein gel. BPTF / FALZ (2791-2911) protein was run on an SDS-PAGE gel and stained with Coomassie blue.