Datasheet for ABIN2669702

SETMAR Protein (DYKDDDDK Tag)

1 Image

Go to Product page

Overview

Quantity:	20 µg
Target:	SETMAR
Origin:	Human
Source:	Baculovirus
Protein Type:	Recombinant
Purification tag / Conjugate:	This SETMAR protein is labelled with DYKDDDDK Tag.
Application:	Enzyme Activity Assay (EAA), Screening Assay (ScA)

Product Details

Characteristics:	Recombinant SETMAR (accession number NP_006506.3) was expressed in Sf9 cells and contains an N-terminal FLAG tag with an observed molecular weight of 79 kDa.

Target Details

Target:	SETMAR
Alternative Name:	SETMAR (SETMAR Products)
Background:	SETMAR (SET Domain and mariner transposase fusion gene) is a ubiquitously expressed nuclear fusion protein that contains an N-terminal SET domain with histone methyltransferase activity and a C-terminal mariner (MAR) transposase domain that recognizes and binds DNA. The gene exists as a fusion gene only in anthropoid primates, other organisms lack mariner transposase domain. SETMAR binds DNA and functions in DNA repair activities including non-homologous end joining and double strand break repair. The mariner transposase domain recognizes and binds the 19-mer core of the 5'-TIR (terminal inverted repeats) of the Hsmar1

Target Details

	element. The SET domain specifically methylates lysines 4 and 36 of histone H3 which are epigenetic marks associated with transcriptional activation. SETMAR demonstrates in vivo end joining activity and may mediate genomic integration of foreign DNA.
Molecular Weight:	79 kDa
Pathways:	Positive Regulation of Response to DNA Damage Stimulus

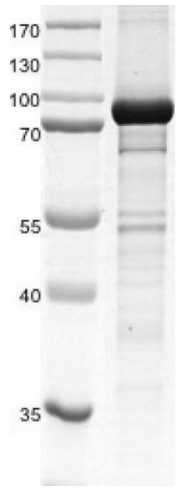
Application Details

Application Notes:	Recombinant SETMAR is suitable for use in the study of enzyme kinetics, 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



Western Blotting

Image 1. Recombinant SETMAR protein gel. SETMAR protein was run on a 10% SDS-PAGE gel and stained with Coomassie blue.