重组人AF9蛋白

Recombinant AF9 protein (His tag)

目录号 Catalog Number	539955
同用名 Synonyms	ALL1-fused gene from chromosome 9 protein; Myeloid/lymphoid or mixed-lineage leukemia translocated to chromosome 3 protein; YEATS domain-containing protein 3
种属 Species	Human
表达系统 Expression System	E. coli
蛋白编号 Accession	P42568
分子量 Molecular Weight	Predictes a molecular mass of 17.67 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 19 kDa band.

产品信息

氨基酸序列 Amino Acid Sequence	MASSCAVQVK LELGHRAQVR KKPTVEGFTH DWMVFVRGPE HSNIQHFVEK VVFHLHESFP RPKRVCKDPP YKVEESGYAG FILPIEVYFK NKEEPRKVRF DYDLFLHLEG HPPVNHLRCE KLTFNNPTED FRRKLLKAGG DPLEHHHHHH
性状 Form	冻干粉末 Lyophilized powder
组分 Formulation	Lyophilized from sterile PBS, pH 7.4
纯度 Purity	>90%, by SDS-PAGE with Coomassie Brilliant Blue staining.
内毒素 Endotoxin	Not tested.
活性 Activity	Not tested.
稳定性 Stability	Samples are stable for up to twelve months from date of receipt at -70℃
蛋白构建 Protein Construction	DNA encoding 1-142 aa (P42568) were fused with C-terminal 6His tag.

保存与运输

复溶 Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
储存 Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
运输 Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

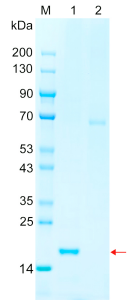
功能描述

研究背景 Background

Recombinant Human AF-9 (MLLT3) YEATS Domain Fragment (aa 1-142) is a high-purity protein designed for chromatin biology and epigenetic research. This fragment fully encompasses the YEATS domain, enabling detailed study of histone recognition and transcriptional regulation mechanisms. Protein AF-9 (MLLT3) is a crucial chromatin reader component of the super elongation complex (SEC) that enhances RNA polymerase II transcription by suppressing polymerase pausing. It specifically recognizes and binds acylated histone H3, showing preferential affinity for crotonylated histones (H3K9cr and H3K18cr) over acetylated or butyrylated forms. This recognition of crotonylation marks, which characterize active promoters and enhancers, allows AF-9 to recruit the SEC complex to chromatin and facilitate DOT1L-mediated H3K79 methylation. The protein plays a vital role in hematopoietic stem cell maintenance by preserving stemness through binding active gene transcription start sites and sustaining H3K79me2 levels. AF-9

验证数据

SDS-PAGE



Recombinant AF9 protein (His tag) SDS-PAGE
M: Marker; Lane 1: AF9; Lane 2: BSA