重组人ZZZ3蛋白

Recombinant ZZZ3 protein (His tag)

目录号 Catalog Number	547700
种属 Species	Human
表达系统 Expression System	E. coli
蛋白编号 Accession	Q8IYH5
分子量 Molecular Weight	Predictes a molecular mass of 15.61 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

产品信息

氨基酸序列 Amino Acid Sequence	MSKIKYRNLP EYKELLQFKK LKKQKLQQMQ AESGFVQHVG FKCDNCGIEP IQGVRWHCQD CPPEMSLDFC DSCSDCLHET DIHKEDHQLE PIYRSETFLD RDYCVSQGTS YNYLDPNYFP ANRLEHHHHH H
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 786-903 aa (Q8IYH5) 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.

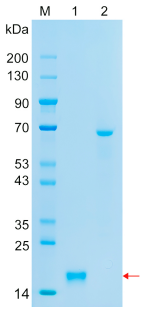
功能描述

研究背景 Background

Recombinant ZZ-type zinc finger-containing protein 3 (ZZZ3) fragment (residues 786-903), derived from Homo sapiens, offers a stable and soluble unit for investigating histone H3 recognition and its role in gene activation mechanisms. This 118-amino acid fragment is ideal for structural and biochemical studies, enabling researchers to explore epigenetic regulation with high reliability.
The full-length ZZZ3 protein functions as a histone H3 reader essential for the ATAC complex-mediated maintenance of histone acetylation and gene activation. As a component of the ATAC complex, it contributes to histone acetyltransferase activity targeting histones H3 and H4, playing a critical role in chromatin remodeling and transcriptional regulation. Located in the nucleus, ZZZ3 is pivotal in epigenetic processes, influencing cellular gene expression profiles. The selected fragment (786-903) was computationally designed to provide a stable, soluble representation for detailed analysis, supporting advancements in understanding epigenetic controls.

验证数据

SDS-PAGE



Recombinant ZZZ3 protein (His tag) SDS-PAGE
M: Marker; Lane 1: ZZZ3; Lane 2: BSA