# 重组人ZC12A蛋白

Recombinant ZC12A protein (His tag)

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| **目录号 Catalog Number** | 545125 |
| **同用名 Synonyms** | Monocyte chemotactic protein-induced protein 1; MCP-induced protein 1; MCPIP-1; Regnase-1; Reg1; Zinc finger CCCH domain-containing protein 12A |
| **种属 Species** | Human |
| **表达系统 Expression System** | E. coli |
| **蛋白编号 Accession** | Q5D1E8 |
| **分子量 Molecular Weight** | Predictes a molecular mass of 26.22 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 27 kDa band. |

## 产品信息

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| **氨基酸序列 Amino Acid Sequence** | MNHKVHHHHH HGGSSDLRPV VIDGSNVAMS HGNKEVFSCR GILLAVNWFL ERGHTDITVF VPSWRKEQPR PDVPITDQHI LRELEKKKIL VFTPSRRVGG KRVVCYDDRF IVKLAYESDG IVVSNDTYRD LQGERQEWKR FIEERLLMYS FVNDKFMPPD DPLGRHGPSL DNFLRKKPLT LEHRKQPCPY GRKCTYGIKC RFFHPERPSC PQRSVADELR ANALL |
| **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 133-343 aa (Q5D1E8) were fused with N-terminal 6His tag. |

## 保存与运输

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| **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.<br>Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise. |

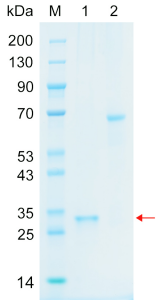
## 功能描述

**研究背景 Background**

Recombinant Human ZC3H12A (Endoribonuclease ZC3H12A/Regnase-1) Fragment (aa 133-343) - A highly purified protein fragment containing the complete RNase NYN domain (aa 135-290), ideal for studying RNA degradation mechanisms, inflammatory response regulation, and immune homeostasis. Endoribonuclease ZC3H12A, also known as Regnase-1 or MCPIP-1, is a crucial regulator of inflammatory responses and immune homeostasis. This multifunctional protein acts as an endoribonuclease that promotes the decay of specific mRNAs encoding cytokines (such as IL6 and IL12B), cell surface receptors, and transcription factors involved in inflammation and T-cell activation. It plays essential roles in preventing aberrant immune reactions, regulating macrophage polarization, promoting angiogenesis, and controlling microRNA biogenesis through its anti-dicer RNase activity. The protein also functions in deubiquitination processes, affecting NF-kappa-B and JNK signaling pathways. ZC3H12A exhibits antiviral activity against HIV-1

## 验证数据

**SDS-PAGE**




Recombinant ZC12A protein (His tag) SDS-PAGE
M: Marker; Lane 1: ZC12A; Lane 2: BSA