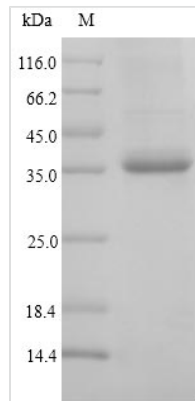




Recombinant Cynodon dactylon Major pollen allergen Cyn d 1 (CYND1)

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|--------------------------|---|
| Product Code | CSB-EP516895EQB |
| Abbreviation | Recombinant Cynodon dactylon CYND1 protein |
| Storage | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C. |
| Uniprot No. | O04701 |
| Product Type | Recombinant Protein |
| Immunogen Species | Cynodon dactylon (Bermuda grass) (Panicum dactylon) |
| Purity | Greater than 90% as determined by SDS-PAGE. |
| Sequence | AIGDKPGPNITATYGSKWLEARATFYGSNPRGAAPDDHGGACGYKDVKPPF DGMTACGNEPIFKDGLGCRACYEIKCKEPEVCSGEPVLVKITDKNYEHIAAYHF DLSGKAFGAMAKKGQEDKLRKAGELTLQFRRVKCKYPSGKITFHIEKGSNDH YLALLVKYAAGDGNIVAVDIKPRDSDEFIPMKSSWGAIWRIDPKKPLKGPFSIRL TSEGAHLVQDDVIPANWKPDVTYTSKLQFGA |
| Research Area | allergen |
| Source | E.coli |
| Target Names | CYND1 |
| Protein Names | Recommended name: Major pollen allergen Cyn d 1 Alternative name(s): Allergen= Cyn d 1 |
| Expression Region | 1-246aa |
| Notes | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| Tag Info | N-terminal 10xHis-tagged and C-terminal Myc-tagged |
| Mol. Weight | 31.9kDa |
| Protein Length | Full Length |

Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The recombinant Cynodon dactylon CYND1 was expressed with the amino acid range of 1-246. The expected molecular weight for the CYND1 protein is calculated to be 31.9 kDa. This CYND1 recombinant protein is manufactured in e.coli. Fusion of the N-terminal 10xHis tag and C-terminal Myc tag into the CYND1 encoding gene fragment was conducted, allowing for easier detection and purification of the CYND1 protein in subsequent stages.

Cynodon dactylon Major Pollen Allergen CYND1 is a significant allergenic protein found in the pollen of Bermuda grass (Cynodon dactylon). Its primary function is triggering allergic reactions in individuals sensitive to grass pollen. In allergy research and immunology, CYND1 is a focus for understanding grass pollen-induced allergies. Research areas include identifying the role of CYND1 in allergic responses and developing diagnostic tools and therapies for pollen allergies. The importance of CYND1 lies in its contribution to allergic sensitization and efforts to mitigate the impact of grass pollen allergies on affected individuals.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

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Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.