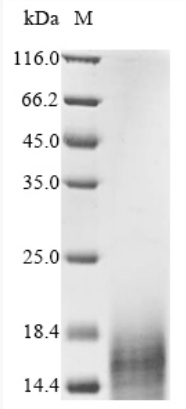
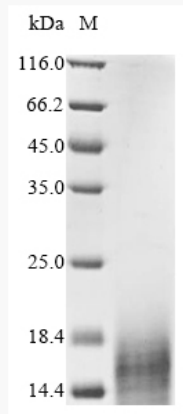


for research use only
Datasheet

| | |
|------------------------|---|
| Product Name | Recombinant Human Dermcidin(DCD) |
| Catalog Number | AAA18431 |
| Expression host | <i>Yeast</i> |
| Product Info | N-terminal 6xHis-tagged |
| Storage Buffer | 20 mM Tris-HCl, 0.5 M NaCl, pH 8.0, 20% glycerol |
| Storage | Store at -20°C, for extended storage, conserve at -20°C or -80°C. |
| Notes | Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week. |
| Relevance | DCD-1 displays antimicrobial activity thereby limiting skin infection by potential pathogens in the first few hours after bacterial colonization. Highly effective against E.coli, E.faecalis, S.aureus and C.albicans. Optimal pH and salt concentration resemble the conditions in sweat. Also exhibits proteolytic activity, cleaving on the C-terminal side of Arg and, to a lesser extent, Lys residues (PubMed:17448443). |
| AA sequence | YDPEAASAPGSGNPCHEASAAQKENAGEDPGLARQAPKPRKQRSSLLEKGL DGAKKAVGGLGKLGKDAVEDLESVGKGAVHDVKDVLDSVL |
| References | "Dermcidin: a novel human antibiotic peptide secreted by sweat glands." Schittek B., Hipfel R., Sauer B., Bauer J., Kalbacher H., Stevanovic S., Schirle M., Schroeder K., Blin N., Meier F., Rassner G., Garbe C. Nat. Immunol. 2:1133-1137(2001) |

Certificate of Analysis

| | | | |
|---------------------|---|--|--|
| Product Name | Recombinant Human Dermcidin(DCD) | | |
| Catalog Number | AAA18431 | | |
| Expression host | Yeast | | |
| Product Info | N-terminal 6xHis-tagged | | |
| Buffer | 20 mM Tris-HCl, 0.5 M NaCl, pH 8.0, 20% glycerol | | |
| Batch Number | 03212 | | |
| Nature | Human DCD-(AA 20-110)- P81605 -Full Length of Mature Protein | | |
| Purification | Affinity purified using IMAC | | |
| Recommended Storage | Short term | 2 to 8 °C, one week from the date of receipt | |
| | Long term | -20 to -80 °C, six months from the date of receipt | |
| Form | Liquid | | |
| Date of detection | 2019.02.28 | | |
| Test Items | Specifications | | Results |
| Appearance | Clear Solution | | pass |
| Concentration | 0.1-5 mg/ml, by the Bradford Method. | | 0.2 mg/ml |
| Purity | ≥90%, by SDS-PAGE quantitative densitometry by Coomassie Blue Staining. |  | 90% |
| Molecular Weight | Predicted band size: 12.1 kDa | | Observed band size: 17 kDa The reducing (R) protein migrates as 17 kDa in SDS-PAGE may be due to relative charge. |



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| | |
|-----------------------------------|--|
| Electrophoretic parameters | (Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel. |
| Aseptic Processing | Not done |
| Endotoxin Level | Untreated |
| Activity | Not tested |
| Conclusion | pass |