# Recombinant DNSL2 protein (His tag)

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| **Catalog Number** | 547879 |
| **Synonyms** | DNase I homolog protein DHP1; Deoxyribonuclease I-like 2; DNase I-like 2 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q92874 |
| **Molecular Weight** | Predictes a molecular mass of 32.59 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 34 kDa band. |

## Product Information

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| **Sequence Region** | 21-299 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >85%, by SDS-PAGE with Coomassie Brilliant Blue staining. |
| **Endotoxin** | Not tested. |
| **Activity** | Not tested. |
| **Stability** | Samples are stable for up to twelve months from date of receipt at -70℃ |
| **Protein Construction** | DNA encoding 21-299 aa (Q92874) were fused with 6His tag. |

## Storage & Handling

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| **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. |
| **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. |
| **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. |

## Description

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| **Description** | Recombinant Deoxyribonuclease-1-like 2 (DNASE1L2) fragment (residues 21-299) from Homo sapiens, engineered for stability and solubility. This fragment retains key functional regions, making it ideal for structural studies, enzymatic assays, and research on DNA degradation mechanisms in epidermal biology. Deoxyribonuclease-1-like 2 (DNASE1L2) is a divalent cation-dependent acid DNA endonuclease that plays a critical role in nuclear breakdown during corneocyte formation in epidermal keratinocytes. It is also implicated in immune defense by eliminating extracellular DNA released from damaged skin cells, preventing potential harm. The protein is localized both in the cytoplasm and as a secreted factor, supporting its involvement in intracellular and extracellular DNA clearance processes. This recombinant fragment encompasses the functional domain, enabling focused investigation into its enzymatic activity and biological relevance. |