# Recombinant P20L1 protein (His tag)

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| **Catalog Number** | 541684 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | A8MW92 |
| **Molecular Weight** | Predictes a molecular mass of 18.58 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 21 kDa band. |

## Product Information

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| **Sequence Region** | 1-140 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >86%, 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 1-140 aa (A8MW92) 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 Human PHD finger protein 20-like protein 1 (PHF20L1) Fragment (residues 1-140) is a high-purity protein designed for studying the Tudor 1 domain. This fragment serves as a valuable tool for investigating the molecular mechanisms of epigenetic regulation and protein stability in stem cell biology and cancer research.<br>The full-length PHF20L1 protein functions as a negative regulator of proteasomal degradation for methylated proteins, including DNMT1 and SOX2, playing a critical role in maintaining embryonic stem cell pluripotency by stabilizing SOX2 levels. It localizes to the nucleus, particularly in the perinucleolar region, underscoring its involvement in nuclear processes related to epigenetic control and cellular differentiation. |