# Recombinant THAP7 protein (His tag)

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| **Catalog Number** | 543495 |
| **Species** | Human |
| **Expression System** | E. coli |
| **Accession** | Q9BT49 |
| **Molecular Weight** | Predictes a molecular mass of 13.19 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band. |

## Product Information

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| **Sequence Region** | 210-309 |
| **Form** | Lyophilized powder |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4 |
| **Purity** | >90%, 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 210-309 aa (Q9BT49) 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 THAP domain-containing protein 7 (THAP7) fragment (residues 210-309) from Homo sapiens, designed for structural and biochemical studies. This 100-amino acid fragment represents a stable, soluble region ideal for investigating chromatin-associated transcriptional repression mechanisms. THAP7 is a chromatin-associated protein that binds histone tails and functions as a transcriptional repressor by recruiting HDAC3 and nuclear hormone receptor corepressors. It localizes to the nucleus and chromosomes, playing a key role in epigenetic regulation. The provided fragment (210-309) was computationally selected to ensure stability and solubility, enabling detailed analysis of THAP7's biochemical properties without known functional domains. |