Recombinant TSTD3 protein (His tag)

Catalog Number	551798
Synonyms	Rhodanese domain-containing protein 3
Species	Human
Expression System	E. coli
Accession	H0UI37
Molecular Weight	Predictes a molecular mass of 12.92 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	1-97
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 1-97 aa (H0UI37) were fused with 6His tag.

Storage & Handling

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. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	This recombinant protein product features a 97-amino acid fragment (residues 1-97) of human Thiosulfate sulfurtransferase/rhodanese-like domain-containing protein 3 (TSTD3), designed to fully encompass the functional Rhodanese domain. This fragment serves as an ideal tool for researchers investigating the specific biochemical functions and interactions of this conserved catalytic domain. Thiosulfate sulfurtransferase/rhodanese-like domain-containing protein 3 (UniProt ID: H0UI37), encoded by the TSTD3 gene, is a human protein. While a detailed function summary and subcellular location for the full-length protein are not provided in the available data, proteins containing the Rhodanese domain are typically involved in sulfur metabolism and transfer reactions. The Rhodanese domain is a conserved structural and functional module known for its role in catalyzing the transfer of a sulfur atom from donor to acceptor molecules, a process implicated in cyanide detoxification, iron-sulfur cluster assembly, and redox regulation. This recombinant fragment allows focused study of this critical domain's activity and molecular interactions independent of the full-length protein's context.