Recombinant TECRL protein (His tag)

Catalog Number	548702
Synonyms	Steroid 5-alpha-reductase 2-like 2 protein
Species	Human
Expression System	E. coli
Accession	Q5HYJ1
Molecular Weight	Predictes a molecular mass of 11.24 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 11 kDa band.

Product Information

Sequence Region	58-142
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 58-142 aa (Q5HYJ1) 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 product is a recombinant protein fragment of human Trans-2,3-enoyl-CoA reductase-like (TECRL), corresponding to residues 58-142. This fragment was computationally selected for its stability and solubility, making it ideal for structural studies and biochemical assays. The full-length TECRL protein, encoded by the TECRL gene (UniProt ID: Q5HYJ1), is a multi-pass membrane protein localized to the endoplasmic reticulum. While its precise enzymatic function is not fully characterized, it is annotated as a steroid 5-alpha-reductase 2-like protein, suggesting potential roles in steroid metabolism. Its membrane association and endoplasmic reticulum localization indicate involvement in lipid-related processes or enzymatic transformations within cellular membranes.