Recombinant CP20A protein (His tag)

Catalog Number	550141
Species	Human
Expression System	E. coli
Accession	Q6UW02
Molecular Weight	Predictes a molecular mass of 51.45 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 52 kDa band.

Product Information

Sequence Region	25-462
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 25-462 aa (Q6UW02) 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	Recombinant Human Cytochrome P450 20A1 (EC 1.14.-.-) Fragment (aa 25-462) is a high-quality protein preparation designed for structural and biochemical research. This 438-amino acid fragment represents a stable, soluble unit of CYP20A1, optimized for experimental applications where full-length membrane protein handling presents challenges. Cytochrome P450 20A1, encoded by the CYP20A1 gene, is a membrane-associated enzyme belonging to the cytochrome P450 superfamily. As a single-pass membrane protein, it localizes to cellular membranes, where cytochrome P450 enzymes typically function in oxidative metabolism of various substrates. While specific catalytic activities for CYP20A1 remain to be fully characterized, cytochrome P450 family members are known to participate in critical biological processes including drug metabolism, steroid synthesis, and detoxification pathways, making this protein of significant interest for pharmacological and biochemical research.