Recombinant AKCL1 protein (His tag)

Catalog Number	549508
Synonyms	Aldo-keto reductase family 1 member C-like protein 1
Species	Human
Expression System	E. coli
Accession	Q5T2L2
Molecular Weight	Predictes a molecular mass of 38.79 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 41 kDa band.

Product Information

Sequence Region	1-326
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 1-326 aa (Q5T2L2) 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 Aldo-keto reductase family 1 member C8 (AKR1C8), corresponding to amino acids 1-326, is a high-purity protein fragment engineered for stability and solubility. This fragment is ideal for structural studies, enzymatic assays, and biochemical characterization, providing researchers with a reliable tool to investigate reductase activity and protein function. Aldo-keto reductase family 1 member C8 (AKR1C8) is a cytoplasmic enzyme belonging to the aldo-keto reductase superfamily, which is involved in the reduction of carbonyl compounds. While the specific functional details are not fully characterized, proteins in this family typically participate in metabolic pathways, including steroid hormone metabolism and detoxification processes. The cytoplasmic localization suggests its role in intracellular redox homeostasis and biosynthetic reactions. The recombinant fragment (1-326) encompasses the complete functional domain, enabling focused studies on its catalytic mechanisms and interactions.