Recombinant CES1P protein (His tag)

Catalog Number	549677
Synonyms	Inactive carboxylesterase 1 pseudogene 1; Placental carboxylesterase 3; PCE-3
Species	Human
Expression System	E. coli
Accession	Q9UKY3
Molecular Weight	Predictes a molecular mass of 30.49 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 30 kDa band.

Product Information

Sequence Region	19-287
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 19-287 aa (Q9UKY3) 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 Putative Inactive Carboxylesterase 4 (CES1P1) Fragment (aa 19-287) is a high-purity protein designed for structural and biochemical studies. This 269-amino acid fragment, encompassing the stable and soluble core domain, enables reliable investigation of this catalytically inactive esterase homolog, supporting research in enzyme evolution and pseudogene functionality. The full-length Putative Inactive Carboxylesterase 4 (also known as Placental Carboxylesterase 3 or PCE-3) is a human protein encoded by the CES1P1 gene that lacks esterase activity despite belonging to the carboxylesterase family. This protein is naturally secreted into the extracellular space, suggesting potential roles in protein-protein interactions or regulatory functions. As a catalytically inactive homolog, it represents an intriguing subject for studying pseudogene evolution, enzyme family diversification, and non-catalytic biological functions in human physiology.