Recombinant SPIT4 protein (His tag)

Catalog Number	551712
Species	Human
Expression System	E. coli
Accession	Q6UDR6
Molecular Weight	Predictes a molecular mass of 10.36 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	25-99
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 25-99 aa (Q6UDR6) 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 high-purity recombinant protein is a 75-amino acid fragment (residues 25-99) of human Kunitz-type protease inhibitor 4 (SPINT4). It is designed to contain the complete BPTI/Kunitz inhibitor functional domain, providing an ideal, focused tool for researchers studying serine protease inhibition, protein-protein interactions, and domain-specific biological functions. Kunitz-type protease inhibitor 4, encoded by the SPINT4 gene in humans, is a secreted protein (UniProt ID: Q6UDR6). As a member of the Kunitz-type serine protease inhibitor family, it plays a crucial role in regulating proteolytic activity in the extracellular environment. Secreted proteins in this family are involved in critical physiological and pathological processes, including tissue remodeling, inflammation, and coagulation. This fragment, encompassing the core inhibitory domain, allows for targeted investigation of its specific biochemical interactions and regulatory mechanisms without interference from other protein regions.