Recombinant IL40 protein (His tag)

Catalog Number	549796
Synonyms	Interleukin-40; IL-40
Species	Human
Expression System	E. coli
Accession	Q6UX52
Molecular Weight	Predictes a molecular mass of 23.13 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 23 kDa band.

Product Information

Sequence Region	21-215
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 21-215 aa (Q6UX52) 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 IL-40 (Interleukin-40) Fragment (aa 21-215) is a highly stable and soluble protein designed for structural and biochemical studies. This fragment, derived from the C17orf99 gene, represents a key functional unit of IL-40, a B cell-associated cytokine involved in humoral immune regulation, B cell development, and immunoglobulin production. Interleukin-40 (IL-40), encoded by the C17orf99 gene, is a probable B cell-associated cytokine that plays a critical role in regulating humoral immune responses. It is involved in lymphocyte B cell development and immunoglobulin production, particularly IgA. As a secreted protein, IL-40 functions extracellularly to mediate immune signaling pathways. The provided fragment (amino acids 21-215) encompasses a computationally optimized stable and soluble region, enabling reliable investigation of IL-40's structural and functional properties in immune system research.