Recombinant IL20 protein (His tag)

Catalog Number	543769
Synonyms	IL-20; Cytokine Zcyto10
Species	Human
Expression System	E. coli
Accession	Q9NYY1
Molecular Weight	Predictes a molecular mass of 19.18 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 19 kDa band.

Product Information

Sequence Region	25-176
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 25-176 aa (Q9NYY1) 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 Interleukin-20 (IL-20) Fragment (aa 25-176) is a high-quality, stable protein fragment derived from the cytokine Zcyto10, designed for structural and functional studies. This 152-amino acid fragment retains key functional regions, making it ideal for investigating IL-20's roles in immune regulation, inflammation, and tissue remodeling. Interleukin-20 (IL-20) is a pro-inflammatory and angiogenic cytokine primarily secreted by monocytes and skin keratinocytes in humans. It plays critical roles in immune responses, inflammatory regulation, hematopoiesis, and epidermal cell differentiation. IL-20 enhances tissue remodeling, wound healing, and maintains epithelial integrity during infections and inflammatory responses. It also modulates actin-mediated functions in neutrophils, inhibiting phagocytosis, granule exocytosis, and migration. The cytokine signals through type I (IL20RA/IL20RB) or type II (IL22RA1/IL20RB) receptor complexes, activating pathways involving JAK2, STAT3, STAT5, AKT, ERK1/2, and p38 MAPK phosphorylation. IL-20 is secreted extracellularly, as indicated by its subcellular localization, and contributes to arteriogenic and vascular remodeling processes.