Recombinant STC2 protein (His tag)

Catalog Number	544196
Synonyms	STC-2; Stanniocalcin-related protein; STC-related protein; STCRP
Species	Human
Expression System	E. coli
Accession	O76061
Molecular Weight	Predictes a molecular mass of 20.16 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 20 kDa band.

Product Information

Sequence Region	43-207
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 43-207 aa (O76061) 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 Stanniocalcin-2 (STC-2) Fragment (aa 43-207) is a high-purity, 165-amino acid protein designed for structural and biochemical studies. This fragment, derived from the anti-hypocalcemic STC-2 protein, has been computationally optimized for stability and solubility, enabling reliable experimental results in calcium and phosphate homeostasis research. Stanniocalcin-2 (STC-2) is a secreted protein in humans that plays a critical role in calcium and phosphate homeostasis through its anti-hypocalcemic action. As a secreted factor, it functions extracellularly to regulate mineral balance, making it significant for studies in bone metabolism, renal function, and endocrine signaling pathways. The full-length protein's secretion, as indicated by its subcellular location, underscores its role as a circulating hormone influencing systemic mineral ion regulation.