Recombinant OSTM1 protein (His tag)

Catalog Number	545342
Synonyms	Chloride channel 7 beta subunit
Species	Human
Expression System	E. coli
Accession	Q86WC4
Molecular Weight	Predictes a molecular mass of 24.82 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 25 kDa band.

Product Information

Sequence Region	80-284
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 80-284 aa (Q86WC4) 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 OSTM1 (80-284) Fragment is a high-quality protein product designed for structural and biochemical research. This 205-amino acid fragment of Osteopetrosis-associated transmembrane protein 1 (Chloride channel 7 beta subunit) represents a stable, soluble unit ideal for investigating protein function and interactions. Osteopetrosis-associated transmembrane protein 1 (OSTM1) is essential for osteoclast and melanocyte maturation and function, playing a critical role in bone remodeling and pigmentation processes. The full-length protein localizes to lysosome membranes as a single-pass type I membrane protein and requires interaction with CLCN7 for proper trafficking to lysosomes. This recombinant fragment provides researchers with a valuable tool to study OSTM1's functional domains without the complications of membrane association.