Recombinant SPP24 protein (His tag)

Catalog Number	549752
Synonyms	Spp-24; Secreted phosphoprotein 2
Species	Human
Expression System	E. coli
Accession	Q13103
Molecular Weight	Predictes a molecular mass of 13.75 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	30-136
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 30-136 aa (Q13103) 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 Secreted Phosphoprotein 24 (Spp-24) Fragment (30-136) is a high-quality, soluble protein fragment designed for structural and biochemical studies. This 107-amino acid fragment, derived from human SPP2, represents a stable and functional unit ideal for investigating bone turnover mechanisms and protein interactions. Secreted Phosphoprotein 24 (Spp-24), also known as Secreted Phosphoprotein 2, is a human protein that plays a role in coordinating bone turnover processes. According to available functional annotations, it contributes to the regulation of bone remodeling, though specific mechanistic details remain to be fully elucidated. As indicated by its subcellular localization, Spp-24 is a secreted protein, functioning extracellularly in biological systems. The full-length protein's involvement in bone metabolism makes it a relevant target for research in skeletal biology, osteoporosis, and related metabolic bone disorders.