Recombinant SMOC2 protein (His tag)

Catalog Number	548232
Synonyms	Secreted modular calcium-binding protein 2; SMOC-2; Smooth muscle-associated protein 2; SMAP-2
Species	Human
Expression System	E. coli
Accession	Q9H3U7
Molecular Weight	Predictes a molecular mass of 26.16 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Sequence Region	197-415
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 197-415 aa (Q9H3U7) 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 SMOC2 Fragment (aa 197-415) is a high-purity protein designed for studying the specific functions of the Thyroglobulin type-1 2 and EF-hand 1 domains. This fragment is ideal for investigating SMOC2's roles in matrix assembly, cell adhesion, and angiogenesis. SMOC2 (SPARC-related modular calcium-binding protein 2) is a secreted protein localized to the extracellular space, extracellular matrix, and basement membrane. It promotes matrix assembly and cell adhesiveness, and has been shown to stimulate endothelial cell proliferation, migration, and angiogenesis, highlighting its importance in vascular biology and tissue remodeling processes.