Recombinant THEM6 protein (His tag)

Catalog Number	551427
Synonyms	Mesenchymal stem cell protein DSCD75; Thioesterase superfamily member 6
Species	Human
Expression System	E. coli
Accession	Q8WUY1
Molecular Weight	Predictes a molecular mass of 23.85 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	18-208
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 18-208 aa (Q8WUY1) 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	This recombinant protein product features a stable, soluble fragment (residues 18-208) of human Protein THEM6 (Thioesterase superfamily member 6), also known as Mesenchymal stem cell protein DSCD75. The fragment has been computationally designed for optimal expression and purification, making it an ideal tool for structural studies, biochemical characterization, and functional assays. Protein THEM6 (UniProt ID: Q8WUY1), encoded by the THEM6 gene in Homo sapiens, is a member of the thioesterase superfamily. While a detailed functional summary is not fully characterized, its classification suggests potential roles in metabolic pathways involving thioester bond hydrolysis. Notably, the protein is annotated as a secreted protein, indicating it functions in the extracellular space or within secretory pathways. This localization hints at possible roles in intercellular signaling or modulation of the extracellular environment, particularly relevant in the context of its association with mesenchymal stem cells. The provided fragment encompasses the core structural domain (residues 18-208) predicted to maintain stability and solubility, facilitating experimental investigation into this protein's biochemical properties and cellular function.