Recombinant TCHL1 protein (His tag)

Catalog Number	551528
Synonyms	Basalin; Protein S100-A17; S100 calcium-binding protein A17
Species	Human
Expression System	E. coli
Accession	Q5QJ38
Molecular Weight	Predictes a molecular mass of 11.80 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	1-90
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 1-90 aa (Q5QJ38) 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 high-purity recombinant protein product features a 90-amino acid fragment (residues 1-90) of human Trichohyalin-like protein 1 (TCHHL1), also known as Basalin or S100-A17. The fragment is specifically designed to encompass the complete EF-hand calcium-binding domain (residues 48-83), making it an ideal, focused tool for researchers studying the structure, calcium-binding properties, and specific molecular interactions of this critical functional region. Trichohyalin-like protein 1 (TCHHL1) is a member of the S100 family of calcium-binding proteins. While a detailed function summary and subcellular location for the full-length protein are not provided here, proteins within the S100 family are generally involved in the regulation of diverse intracellular and extracellular processes, including cell cycle progression, differentiation, and inflammatory responses. They often function as calcium sensors and signal transducers. The production of this specific fragment allows for targeted investigation into the functional contributions of its EF-hand domain, a hallmark structural motif for calcium binding and conformational change in this protein class.