Recombinant NTCP5 protein (His tag)

Catalog Number	550902
Synonyms	Na(+)/bile acid cotransporter 5; Solute carrier family 10 member 5
Species	Human
Expression System	E. coli
Accession	Q5PT55
Molecular Weight	Predictes a molecular mass of 13.00 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	44-142
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 44-142 aa (Q5PT55) 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 product is a recombinant fragment of the human Sodium/bile acid cotransporter 5 (SLC10A5), encompassing amino acids 44-142. It is designed as a stable and soluble unit, ideal for structural studies, biochemical assays, and functional investigations into bile acid transport mechanisms. Sodium/bile acid cotransporter 5 (SLC10A5) is a multi-pass membrane protein localized to the cell membrane, as indicated by its subcellular location. While specific functional details are not provided, it belongs to the solute carrier family 10, which is known for mediating the sodium-dependent transport of bile acids and other substrates across cellular membranes. This transporter plays a role in maintaining bile acid homeostasis, with implications in liver function and metabolic processes.