Recombinant CTL5 protein (His tag)

Catalog Number	545467
Synonyms	Solute carrier family 44 member 5
Species	Human
Expression System	E. coli
Accession	Q8NCS7
Molecular Weight	Predictes a molecular mass of 22.34 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 22 kDa band.

Product Information

Sequence Region	60-242
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 60-242 aa (Q8NCS7) 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 Choline transporter-like protein 5 (SLC44A5), a fragment spanning residues 60-242, is designed for structural and biochemical studies. This 183-amino acid fragment offers a stable, soluble unit of the human choline/H+ antiporter, ideal for investigating membrane transport mechanisms. Choline transporter-like protein 5, encoded by the SLC44A5 gene, functions as a choline/H+ antiporter, facilitating choline transport across cell membranes. It is localized to the cell membrane as a multi-pass membrane protein, playing a critical role in choline homeostasis, which is essential for neurotransmitter synthesis and cell signaling. This fragment, selected computationally for stability and solubility, enables focused analysis of key regions without the complexities of the full-length protein.