Recombinant CTL1 protein (His tag)

Catalog Number	547831
Synonyms	CDw92; Solute carrier family 44 member 1; CD antigen CD92
Species	Human
Expression System	E. coli
Accession	Q8WWI5
Molecular Weight	Predictes a molecular mass of 19.16 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 19 kDa band.

Product Information

Sequence Region	52-212
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 52-212 aa (Q8WWI5) 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 Choline transporter-like protein 1 (SLC44A1) fragment (residues 52-212) is a high-quality, stable protein designed for structural and biochemical studies. This soluble fragment retains key functional characteristics of the full-length protein, making it ideal for investigating choline and ethanolamine transport mechanisms. Choline transporter-like protein 1 (SLC44A1), also known as CDw92, functions as a choline/H+ antiporter and high-affinity ethanolamine/H+ antiporter. It plays a critical role in regulating extracellular ethanolamine supply for the CDP-Etn pathway and balancing the CDP-Cho and CDP-Etn arms of the Kennedy pathway. The protein is essential for membrane synthesis and myelin production. SLC44A1 localizes to the cell membrane and mitochondrial outer membrane as a multi-pass membrane protein. The selected fragment (residues 52-212) represents a stable, soluble unit optimized for experimental applications.