Recombinant KCTD8 protein (His tag)

Catalog Number	550930
Species	Human
Expression System	E. coli
Accession	Q6ZWB6
Molecular Weight	Predictes a molecular mass of 14.01 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	41-147
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 41-147 aa (Q6ZWB6) 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 KCTD8 (BTB/POZ domain-containing protein KCTD8) Fragment (aa 41-147): A high-purity protein fragment encompassing the full BTB domain, designed as a specialized tool for investigating the structural and functional roles of this key domain in GABA-B receptor modulation and signaling dynamics. The full-length BTB/POZ domain-containing protein KCTD8 is an auxiliary subunit of GABA-B receptors that significantly influences receptor pharmacology and response kinetics. It enhances agonist potency and modulates G-protein signaling by accelerating response onset and promoting desensitization. KCTD8 is localized to both presynaptic and postsynaptic cell membranes, underscoring its critical role in synaptic transmission and neuronal signaling pathways.