Recombinant KCTD2 protein (His tag)

Catalog Number	549755
Synonyms	Potassium channel tetramerization domain-containing protein 2
Species	Human
Expression System	E. coli
Accession	Q14681
Molecular Weight	Predictes a molecular mass of 23.75 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Amino Acid Sequence	MSKIKRWVRL NVGGTYFVTT RQTLGREPKS FLCRLCCQED PELDSDKDET GAYLIDRDPT YFGPILNYLR HGKLIITKEL AEEGVLEEAE FYNIASLVRL VKERIRDNEN RTSQGPVKHV YRVLQCQEEE LTQMVSTMSD GWKFEQLISI GSSYNYGNED QAEFLCVVSR ELNNSTNGIV IEPSEKAKIL QERGSRMLEH HHHHH
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 72-263 aa (Q14681) were fused with C-terminal 6His tag.

Storage & Handling

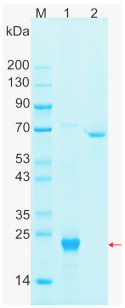
Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume 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 KCTD2 BTB Domain Fragment (aa 72-263) – A high-purity protein fragment designed for studying the specific functions of the BTB domain in potassium channel tetramerization and protein-protein interactions, offering researchers a targeted tool for structural and functional analyses. The full-length BTB/POZ domain-containing protein KCTD2, encoded by the gene KCTD2 in Homo sapiens, is involved in potassium channel assembly and regulation through its tetramerization domain. While specific functional summaries and subcellular localization details are not provided, KCTD2's BTB domain is critical for mediating protein-protein interactions and complex formation, highlighting its importance in cellular signaling and ion channel function. This recombinant fragment focuses on the BTB domain to enable precise investigation of its mechanistic roles.

Validation

SDS-PAGE



Recombinant KCTD2 protein (His tag) SDS-PAGE
M: Marker; Lane 1: KCTD2; Lane 2: BSA