Recombinant DCDC2 protein (His tag)

Catalog Number	548467
Synonyms	Protein RU2S
Species	Human
Expression System	E. coli
Accession	Q9UHG0
Molecular Weight	Predictes a molecular mass of 26.81 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 27 kDa band.

Product Information

Sequence Region	1-224
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 1-224 aa (Q9UHG0) 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 Doublecortin domain-containing protein 2 (DCDC2) fragment (aa 1-224) - A high-purity protein tool designed for studying the functional Doublecortin domains involved in Wnt signaling regulation, neuronal migration, and ciliogenesis control. Doublecortin domain-containing protein 2 (DCDC2) is a human protein that functions as an inhibitor of the canonical Wnt signaling pathway and plays crucial roles in neuronal migration during cerebral neocortex development. The protein is also essential for controlling ciliogenesis and regulating ciliary length. DCDC2 localizes primarily to cellular projections, specifically cilia and kinocilia, as well as to the ciliary axoneme and cytoplasmic cytoskeleton. It demonstrates cell-cycle-dependent localization to mitotic spindle fibers. The recombinant fragment (amino acids 1-224) encompasses both Doublecortin 1 and Doublecortin 2 domains, making it an ideal reagent for investigating the specific molecular functions of these critical domains in cellular signaling and development processes.