Recombinant PTC2 protein (His tag)

Catalog Number	546348
Synonyms	PTC2
Species	Human
Expression System	E. coli
Accession	Q9Y6C5
Molecular Weight	Predictes a molecular mass of 36.98 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 38 kDa band.

Product Information

Sequence Region	79-392
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 79-392 aa (Q9Y6C5) 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	Introducing the recombinant Protein Patched Homolog 2 (PTC2) fragment (amino acids 79-392), a highly stable and soluble unit derived from the human PTCH2 gene. This fragment is expertly designed for structural and biochemical studies, offering researchers a reliable tool to investigate cellular growth regulation and Hedgehog signaling pathways. Protein Patched Homolog 2 (PTC2), encoded by the PTCH2 gene in Homo sapiens, plays a critical role in the control of cellular growth and may contribute to epidermal development. It functions as a potential receptor for Sonic hedgehog (SHH), a key signaling molecule involved in developmental processes and tissue homeostasis. As a multi-pass membrane protein localized to the cell membrane, PTC2 is integral to mediating Hedgehog pathway activity, which influences cell proliferation and differentiation. The provided fragment represents a computationally optimized region selected for enhanced solubility and stability, facilitating experimental applications without the complexities of the full-length membrane protein.