Recombinant PIRC2 protein (His tag)

Catalog Number	549699
Species	Human
Expression System	E. coli
Accession	H3BRN8
Molecular Weight	Predictes a molecular mass of 15.42 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	1-121
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 1-121 aa (H3BRN8) 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 Piercer of microtubule wall 2 protein (PIERCE2) fragment (residues 1-121) is a high-purity, soluble protein designed for structural and biochemical studies. This fragment represents a stable domain essential for microtubule inner protein function, enabling researchers to investigate mechanisms of dynein arm attachment and ciliary motility. The full-length Piercer of microtubule wall 2 protein (PIERCE2) is a microtubule inner protein critical for the attachment of outer dynein arms (ODAs) to dynein-decorated doublet microtubules (DMTs) in cilia axonemes. This function is required for proper motile cilia beating, which plays vital roles in cellular motility and fluid movement. The protein localizes to the cytoplasm and cytoskeleton, specifically within cilium and flagellum axonemes, as supported by experimental evidence. The provided fragment (1-121) encompasses key structural regions to facilitate studies on its role in ciliary assembly and function.