Recombinant PCBP2 protein (His tag)

Catalog Number	538089
Synonyms	rC; Alpha-CP2; Heterogeneous nuclear ribonucleoprotein E2; hnRNP E2
Species	Human
Expression System	E. coli
Accession	Q15366
Molecular Weight	Predictes a molecular mass of 19.43 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 19 kDa band.

Product Information

Sequence Region	1-168
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 1-168 aa (Q15366) 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 Poly(rC)-binding protein 2 (PCBP2) Fragment (aa 1-168) is a high-purity protein encompassing the KH 1 and KH 2 domains, essential for studying nucleic acid binding and antiviral signaling regulation. This fragment serves as an ideal tool for investigating domain-specific functions in RNA metabolism and immune response pathways. Poly(rC)-binding protein 2 (PCBP2), also known as hnRNP E2, is a single-stranded nucleic acid-binding protein in humans that preferentially binds oligo dC and poly(rU). It functions as a key regulator of antiviral signaling by negatively modulating MAVS-mediated responses through ubiquitination and degradation, and it suppresses the cGAS-STING pathway by preventing CGAS activation in liquid-like droplets. PCBP2 localizes to both the nucleus and cytoplasm and may shuttle between these compartments. During poliovirus infection, it binds the viral IRES to stimulate translation and aids in viral RNA replication. The provided fragment (amino acids 1-168) includes the KH 1 and KH 2 domains, enabling focused research on their roles in nucleic acid interactions and cellular defense mechanisms.