Recombinant CNOT3 protein (His tag)

Catalog Number	537287
Synonyms	CCR4-associated factor 3; Leukocyte receptor cluster member 2
Species	Human
Expression System	E. coli
Accession	O75175
Molecular Weight	Predictes a molecular mass of 29.11 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 35 kDa band.

Product Information

Sequence Region	1-231
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 1-231 aa (O75175) 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 CNOT3 (CCR4-NOT transcription complex subunit 3) Fragment (1-231) is a high-quality protein designed for structural and biochemical studies. This fragment represents a stable and soluble unit of CNOT3, optimized for research applications investigating mRNA deadenylation, transcriptional regulation, and cellular metabolism. CNOT3 is a critical component of the CCR4-NOT complex, a major cellular mRNA deadenylase involved in bulk mRNA degradation, miRNA-mediated repression, translational control, and transcriptional regulation. It plays roles in metabolic regulation, mitotic progression, spindle assembly checkpoint control via MAD1L1 mRNA stability, and maintenance of embryonic stem cell identity. The protein localizes to the cytoplasm, nucleus, and P-bodies, with its P-body localization promoted by NANOS2. This fragment enables focused studies on CNOT3's functional domains and interactions within key cellular processes.