Recombinant ICE2 protein (His tag)

Catalog Number	542871
Synonyms	Interactor of little elongator complex ELL subunit 2; NMDA receptor-regulated protein 2
Species	Human
Expression System	E. coli
Accession	Q659A1
Molecular Weight	Predictes a molecular mass of 33.91 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 34 kDa band.

Product Information

Sequence Region	88-366
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 88-366 aa (Q659A1) 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 ICE2 (Little elongation complex subunit 2) fragment (aa 88-366) is a high-purity protein designed for structural and functional studies. This 279-amino acid fragment represents a stable and soluble unit, ideal for investigating the role of ICE2 in snRNA gene transcription regulation by RNA polymerase II and III. ICE2, also known as Interactor of little elongator complex ELL subunit 2 or NMDA receptor-regulated protein 2, is a component of the little elongation complex (LEC). The LEC is essential for regulating small nuclear RNA (snRNA) gene transcription by RNA polymerase II and III. ICE2 localizes to the nucleus, specifically colocalizing with COIL in subnuclear Cajal and histone locus bodies. It translocates within the LEC complex to these bodies at snRNA genes in an ICE1-dependent manner and associates with transcriptionally active chromatin at snRNA genes, highlighting its critical role in transcriptional regulation.