Recombinant NLE1 protein (His tag)

Catalog Number	543751
Species	Human
Expression System	E. coli
Accession	Q9NVX2
Molecular Weight	Predictes a molecular mass of 54.85 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 55 kDa band.

Product Information

Sequence Region	2-485
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 2-485 aa (Q9NVX2) 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 Notchless protein homolog 1 (NLE1) fragment (residues 2-485) from Homo sapiens, designed for structural and biochemical studies. This stable, soluble fragment retains key functional regions, enabling researchers to investigate its role in Notch signaling and cellular regulation. Notchless protein homolog 1 (NLE1) plays a critical role in regulating Notch signaling activity, which influences the expression of CDKN1A and multiple Wnt pathway components. It is essential for inner cell mass survival during embryogenesis. The protein localizes to the nucleus and nucleolus, underscoring its involvement in nuclear processes. The recombinant fragment (residues 2-485) was selected computationally to ensure stability and solubility, facilitating experimental analysis of its functional domains.