Recombinant NRL protein (His tag)

Catalog Number	537840
Synonyms	NRL
Species	Human
Expression System	E. coli
Accession	P54845
Molecular Weight	Predictes a molecular mass of 13.88 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	131-237
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 131-237 aa (P54845) 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 Neural retina-specific leucine zipper protein (NRL) fragment (aa 131-237) is a high-purity protein designed for studying the bZIP domain's role in transcriptional regulation. This fragment serves as an essential tool for investigating rod-specific gene expression and photoreceptor development. The full-length Neural retina-specific leucine zipper protein (NRL) functions as a transcriptional activator that regulates the expression of rod-specific genes, including RHO and PDE6B. It also acts as a transcriptional coactivator, enhancing transcription mediated by CRX and NR2E3, and binds sequence-specifically to the rhodopsin promoter. NRL localizes to both the cytoplasm and nucleus, underscoring its dynamic role in photoreceptor cell function and retinal development. This recombinant fragment enables focused analysis of the bZIP domain's specific contributions to these processes.