Recombinant NMI protein (His tag)

Catalog Number	540250
Synonyms	Nmi; N-myc and STAT interactor
Species	Human
Expression System	E. coli
Accession	Q13287
Molecular Weight	Predictes a molecular mass of 26.87 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Sequence Region	85-307
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 85-307 aa (Q13287) 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 N-myc-interactor (Nmi) Fragment (aa 85-307) – a high-purity protein fragment encompassing the complete NID1 and NID2 domains, designed for targeted investigation of Nmi's role in immune signaling, STAT-mediated transcription, and interferon response pathways. N-myc-interactor (Nmi) is a multifunctional signaling regulator in Homo sapiens that plays critical roles in innate immune responses and cytokine signaling. The full-length protein functions both intracellularly and extracellularly: within cells, it enhances STAT1- and STAT5-dependent transcription by facilitating coactivator recruitment in response to IL2 and IFN-γ, while also forming complexes with IFI35 to regulate NF-κB signaling and inhibit endothelial cell proliferation. Additionally, Nmi negatively regulates antiviral responses by degrading IRF7 and inhibiting type I interferon production. Extracellularly, Nmi acts as a damage-associated molecular pattern (DAMP) secreted by macrophages, where it promotes inflammation through TLR4-mediated NF-κB activation. The protein localizes to both cytoplasmic granular structures and the nucleus, with nuclear translocation increasing following IFN-α treatment. The recombinant fragment (aa 85-307) contains the complete NID domains essential for these protein-protein interactions and signaling functions.