Recombinant NAB2 protein (His tag)

Catalog Number	547355
Synonyms	EGR-1-binding protein 2; Melanoma-associated delayed early response protein; Protein MADER
Species	Human
Expression System	E. coli
Accession	Q15742
Molecular Weight	Predictes a molecular mass of 16.39 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 18 kDa band.

Product Information

Sequence Region	236-361
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 236-361 aa (Q15742) 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	This recombinant protein product features a stable and soluble fragment (residues 236-361) of human NGFI-A-binding protein 2 (NAB2), also known as EGR-1-binding protein 2 or Melanoma-associated delayed early response protein. This fragment has been computationally optimized for structural and biochemical studies, offering researchers a reliable tool to investigate the molecular mechanisms of transcriptional regulation. NGFI-A-binding protein 2 (NAB2) functions as a transcriptional repressor for zinc finger transcription factors EGR1 and EGR2, playing a crucial role in modulating gene expression programs. The full-length protein is localized to the nucleus, where it exerts its repressive activity on early growth response transcription factors. Notably, alternative splicing generates isoforms with distinct functional properties, as isoform 2 lacks both nuclear localization and repression capability. This protein has been implicated in melanoma biology through its identification as a melanoma-associated delayed early response protein (MADER), highlighting its potential significance in cancer research and cellular differentiation studies.