Recombinant NCOA2 protein (His tag)

Catalog Number	540352
Synonyms	NCoA-2; Class E basic helix-loop-helix protein 75; bHLHe75; Transcriptional intermediary factor 2; hTIF2
Species	Human
Expression System	E. coli
Accession	Q15596
Molecular Weight	Predictes a molecular mass of 40.81 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 43 kDa band.

Product Information

Sequence Region	33-375
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 33-375 aa (Q15596) 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 Nuclear receptor coactivator 2 (NCoA-2) Fragment (aa 33-375) is a high-purity protein designed for studying the PAS domain's specific functions. This fragment serves as an essential tool for investigating transcriptional coactivation mechanisms in nuclear receptor signaling pathways. Nuclear receptor coactivator 2 (NCoA-2) is a crucial transcriptional coactivator for steroid receptors and nuclear receptors, playing key roles in energy balance regulation between white and brown adipose tissues and glucose metabolism control through G6PC1 expression modulation. It enhances glucocorticoid receptor NR3C1 activity through sumoylation pathways and positively regulates circadian clock function via CLOCK-BMAL1 heterodimer coactivation. Located exclusively in the nucleus, NCoA-2 operates through specific functional domains, including the PAS domain contained within this recombinant fragment (aa 119-183), making it invaluable for domain-specific functional studies.