Recombinant JDP2 protein (His tag)

Catalog Number	540892
Species	Human
Expression System	E. coli
Accession	Q8WYK2
Molecular Weight	Predictes a molecular mass of 13.75 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 16 kDa band.

Product Information

Sequence Region	64-163
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 64-163 aa (Q8WYK2) 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 Jun dimerization protein 2 (JDP2) fragment (amino acids 64-163) from Homo sapiens, encompassing the essential bZIP domain. This high-purity protein is an ideal tool for investigating AP-1 transcription factor regulation, DNA binding, and dimerization mechanisms in cellular processes. Jun dimerization protein 2 (JDP2) is a key component of the AP-1 transcription factor complex that represses transactivation mediated by Jun family proteins. It plays critical roles in diverse transcriptional responses including UV-induced apoptosis, cell differentiation, tumorigenesis, and antitumorigenesis. The protein can function as a repressor by recruiting histone deacetylase 3 (HDAC3) to JUN promoter regions and may regulate transcription through histone modification and chromatin assembly control. JDP2 is localized to the nucleus, where it exerts its transcriptional regulatory functions. The provided fragment specifically contains the bZIP domain (amino acids 72-135), enabling focused studies on DNA binding and protein dimerization properties central to JDP2's biological activities.