Recombinant SPDEF protein (His tag)

Catalog Number	539613
Synonyms	Prostate epithelium-specific Ets transcription factor; Prostate-specific Ets; Prostate-derived Ets factor
Species	Human
Expression System	E. coli
Accession	O95238
Molecular Weight	Predictes a molecular mass of 13.36 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	114-215
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 114-215 aa (O95238) 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 product is a recombinant fragment of the human SAM pointed domain-containing Ets transcription factor (SPDEF), encompassing amino acids 114-215. It includes the complete PNT domain, making it an ideal tool for investigating domain-specific functions in transcriptional regulation and prostate-related pathways. The full-length SPDEF protein functions as an androgen-independent transactivator of the prostate-specific antigen (PSA) promoter, binding to 5'-GGAT-3' DNA sequences. It plays a role in regulating prostate gland function and may contribute to prostate cancer development. SPDEF also acts as a transcriptional activator for the SERPINB5 promoter and is localized to the nucleus, underscoring its importance in nuclear transcriptional processes.