Recombinant FOXL2 protein (His tag)

Catalog Number	540085
Species	Human
Expression System	E. coli
Accession	P58012
Molecular Weight	Predictes a molecular mass of 14.22 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	52-157
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 52-157 aa (P58012) 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 FOXL2 Fragment (aa 52-157) is a highly stable and soluble protein fragment derived from the Forkhead box protein L2, a key transcriptional regulator essential for ovarian development and maintenance. This fragment is ideal for structural studies, biochemical assays, and functional investigations into FOXL2's role in reproductive biology and gene regulation. Forkhead box protein L2 (FOXL2) is a nuclear transcriptional regulator critical for ovary differentiation and maintenance, as well as repression of testis-determining genetic programs. It prevents trans-differentiation of ovary to testis by repressing SOX9, regulates apoptosis in ovarian cells, and modulates the expression of genes such as CYP19, STAR, SIRT1, and OSR2. FOXL2 also participates in SMAD3-dependent transcription of FST and suppresses ESR1-mediated PTGS2/COX2 transcription. The protein is localized to the nucleus, underscoring its role in transcriptional control. The provided fragment (aa 52-157) represents a stable, soluble region selected for experimental applications, enabling focused studies on FOXL2's molecular mechanisms.