Recombinant VCX2 protein (His tag)

Catalog Number	550762
Synonyms	Variable charge protein on X with two repeats; VCX-2r; Variably charged protein X-B; VCX-B
Species	Human
Expression System	E. coli
Accession	Q9H322
Molecular Weight	Predictes a molecular mass of 10.92 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 11 kDa band.

Product Information

Sequence Region	1-90
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 1-90 aa (Q9H322) 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 VCX-2r (VCX-B) Fragment (aa 1-90) is a high-purity, stable protein fragment derived from the Variable charge X-linked protein 2. This 90-amino acid fragment is optimized for solubility and structural integrity, making it an ideal tool for investigating the protein's potential roles in spermatogenesis and sex ratio distortion through biochemical and structural studies. The full-length Variable charge X-linked protein 2 (VCX-2r/VCX-B), encoded by the VCX2 gene in Homo sapiens, is implicated in reproductive biology. Based on functional annotations, it may mediate processes critical to spermatogenesis or contribute to mechanisms underlying sex ratio distortion, though its precise molecular role and subcellular localization remain areas of active research. This recombinant fragment provides a focused approach to elucidate these functions.