Recombinant ERR3 protein (His tag)

Catalog Number	547136
Synonyms	ERR gamma-2; Estrogen receptor-related protein 3; Nuclear receptor subfamily 3 group B member 3
Species	Human
Expression System	E. coli
Accession	P62508
Molecular Weight	Predictes a molecular mass of 27.02 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 29 kDa band.

Product Information

Sequence Region	235-458
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 235-458 aa (P62508) 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 high-quality recombinant protein fragment of human Estrogen-related receptor gamma (ERR gamma-2), encompassing amino acids 235-458. This 224-amino acid fragment has been computationally optimized for stability and solubility, making it an ideal tool for structural studies, biochemical assays, and functional investigations of this key transcriptional regulator. Estrogen-related receptor gamma (ERR gamma-2) is an orphan nuclear receptor that functions as a transcription activator without requiring bound ligand. It specifically binds to estrogen response elements and activates reporter genes controlled by these elements. Research has shown that ERR gamma induces the expression of PERM1 in skeletal muscle, highlighting its role in muscle biology and energy metabolism. The protein is localized to the nucleus, consistent with its function as a transcriptional regulator involved in various physiological processes.