Recombinant LFTY2 protein (His tag)

Catalog Number	544026
Synonyms	Endometrial bleeding-associated factor; Left-right determination factor A; Protein lefty-2; Protein lefty-A; Transforming growth factor beta-4; TGF-beta-4
Species	Human
Expression System	E. coli
Accession	O00292
Molecular Weight	Predictes a molecular mass of 33.97 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 34 kDa band.

Product Information

Sequence Region	77-366
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 77-366 aa (O00292) 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 Left-right determination factor 2 (Lefty-2) Fragment (aa 77-366) is a high-purity protein designed for structural and biochemical studies. This 290-amino acid fragment represents a stable, soluble unit of the protein, ideal for investigating its role in left-right asymmetry determination and endometrial function. Left-right determination factor 2 (Lefty-2) is a secreted protein essential for establishing left-right asymmetry in mammalian organ systems and may contribute to endometrial bleeding processes. As a member of the transforming growth factor-beta family, it functions in embryonic development and tissue regulation. The protein's secretion enables extracellular signaling, positioning it as a key modulator of developmental pathways and potential therapeutic target.