Recombinant TROAP protein (His tag)

Catalog Number	542591
Synonyms	Trophinin-assisting protein; Trophinin-associated protein
Species	Human
Expression System	E. coli
Accession	Q12815
Molecular Weight	Predictes a molecular mass of 9.79 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	704-778
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 704-778 aa (Q12815) 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 recombinant protein product features a 75-amino acid fragment (residues 704-778) of human Tastin (Trophinin-assisting protein), encoded by the TROAP gene. This fragment has been carefully selected for its stability and solubility, making it an ideal tool for structural studies and biochemical assays related to cell adhesion mechanisms. Tastin, also known as trophinin-assisting protein or trophinin-associated protein, is implicated in a cell adhesion molecule complex alongside bystin and trophinin. This complex plays a critical role in mediating the initial attachment of the blastocyst to uterine epithelial cells during embryo implantation, a fundamental process in early pregnancy. The full-length protein is localized to the cytoplasm, where it contributes to these essential cellular interactions.