Recombinant BOP protein (His tag)

Catalog Number	538349
Synonyms	BH3-only protein; Retrotransposon Gag-like protein 10
Species	Human
Expression System	E. coli
Accession	Q7L3V2
Molecular Weight	Predictes a molecular mass of 11.40 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	99-183
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 99-183 aa (Q7L3V2) 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 Protein Bop (BH3-only protein) Fragment (aa 99-183) - A stable, soluble fragment of the RTL10 gene product, specifically designed for structural and biochemical studies of this apoptosis-inducing protein. Protein Bop, also known as Retrotransposon Gag-like protein 10 (RTL10), is a human BH3-only protein that induces apoptosis in a BH3 domain-dependent manner. The direct interaction network of Bcl-2 family members plays a key role in modulating RTL10/BOP intrinsic apoptotic signaling activity. This protein localizes to the mitochondrion, where it participates in the regulation of programmed cell death pathways. The selected fragment (amino acids 99-183) represents a stable and soluble unit optimized for research applications.