Recombinant CAAP1 protein (His tag)

Catalog Number	551274
Synonyms	Conserved anti-apoptotic protein; CAAP
Species	Human
Expression System	E. coli
Accession	Q9H8G2
Molecular Weight	Predictes a molecular mass of 12.36 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 14 kDa band.

Product Information

Sequence Region	134-227
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 134-227 aa (Q9H8G2) 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 recombinant fragment (residues 134-227) of the human Caspase activity and apoptosis inhibitor 1 (CAAP1) protein. It represents a stable, soluble unit of this key anti-apoptotic regulator, designed for structural and biochemical studies of programmed cell death pathways. The full-length Caspase activity and apoptosis inhibitor 1 (CAAP1) is a conserved anti-apoptotic protein that functions to modulate a caspase-10 dependent mitochondrial caspase-3/9 feedback amplification loop. This places it as a critical regulator within the intrinsic apoptosis pathway, influencing the balance between cell survival and programmed cell death. Its activity is significant for understanding cellular homeostasis and dysregulation in various disease states.