Recombinant C8AP2 protein (His tag)

Catalog Number	546214
Synonyms	FLICE-associated huge protein
Species	Human
Expression System	E. coli
Accession	Q9UKL3
Molecular Weight	Predictes a molecular mass of 15.82 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 16 kDa band.

Product Information

Sequence Region	1034-1151
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 1034-1151 aa (Q9UKL3) 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	Introducing the recombinant protein fragment of CASP8-associated protein 2 (FLICE-associated huge protein), spanning residues 1034-1151. This 118-amino acid fragment is engineered for stability and solubility, making it an ideal tool for structural studies and biochemical assays. It represents a key segment of the human CASP8AP2 protein, which plays critical roles in apoptosis, NF-kappa-B signaling, and cell cycle regulation. CASP8-associated protein 2 (CASP8AP2) is a multifunctional human protein involved in TNF-alpha-induced suppression of glucocorticoid receptor transactivation and activation of NF-kappa-B via TRAF2-dependent pathways. It acts as a downstream mediator for CASP8 in both NF-kappa-B activation and FAS-mediated apoptosis. Additionally, it is essential for histone gene transcription and S phase progression. The protein localizes to the cytoplasm, nucleus (including PML bodies), and mitochondria, with nuclear-to-mitochondrial translocation occurring upon FAS activation. This fragment (1034-1151) was selected based on computational predictions to provide a stable, soluble unit for research applications.