Recombinant ABHD8 protein (His tag)

Catalog Number	545690
Synonyms	Alpha/beta hydrolase domain-containing protein 8; Abhydrolase domain-containing protein 8
Species	Human
Expression System	E. coli
Accession	Q96I13
Molecular Weight	Predictes a molecular mass of 33.78 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 34 kDa band.

Product Information

Sequence Region	152-439
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 152-439 aa (Q96I13) 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 ABHD8 Protein Fragment (aa 152-439) - A high-purity protein fragment encompassing the complete AB hydrolase-1 domain (aa 177-279), designed specifically for studying the structural and functional properties of this key regulatory enzyme involved in NLRP3 inflammasome control. Protein ABHD8 (Alpha/beta hydrolase domain-containing protein 8) is a human cytoplasmic enzyme that functions as a negative regulator of NLRP3-driven inflammation. Through its interaction with palmitoyltransferase ZDHHC12, ABHD8 facilitates NLRP3 palmitoylation and subsequent degradation via the chaperone-mediated autophagy pathway, thereby attenuating inflammasome activation and IL-1β secretion. This regulatory mechanism positions ABHD8 as a crucial modulator of inflammatory responses, with potential implications for understanding and targeting inflammatory disorders.