

DPP8 Protein, Human (Sf9)

Cat. No.:	HY-P701873
Synonyms:	DPP8; Dipeptidyl peptidase 8; DP8; Dipeptidyl peptidase IV-related protein 1; DPRP-1; Dipeptidyl peptidase VIII; DPP VIII; Prolyl dipeptidase DPP8
Species:	Human
Source:	Sf9 insect cells
Accession:	Q6V1X1 (M1-I898)
Gene ID:	54878
Molecular Weight:	

PROPERTIES

Appearance	Solution.
Formulation	Supplied as a 0.22 µm filtered solution of 50 mM Tris-HCl, pH7.5, 200 mM NaCl, 20% glycerol.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	DPP8 protein functions as a dipeptidyl peptidase, cleaving N-terminal dipeptides from proteins containing a Pro or Ala residue at position 2. It plays a crucial role as a key inhibitor of caspase-1-dependent monocyte and macrophage pyroptosis in resting cells by preventing the activation of NLRP1 and CARD8. DPP8 achieves this by sequestering the cleaved C-terminal portions of NLRP1 and CARD8, the active components of their respective inflammasomes, in a ternary complex, thereby impeding their oligomerization and subsequent activation. The dipeptidyl peptidase activity of DPP8 is essential for the suppression of NLRP1 and CARD8, although neither of these proteins appears to be a direct substrate of DPP8. This suggests the existence of unidentified substrate(s) required for the inhibition of NLRP1 and CARD8, highlighting the intricate regulatory mechanisms orchestrated by DPP8 in the context of cellular pyroptosis and inflammasome activation.
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Caution: Product has not been fully validated for medical applications. For research use only.

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