Product Data Sheet

Product Name:	DPP2 Protein, Mouse, Recombinant (His Tag)
Cat. No.:	GP25569
Batch No.:	1

Product Data

Purity	>98%	Source	
Phycical Appearance	solid	Shipping Condition	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.
Synonyms	Dpp2 Protein, Mouse; DPPII Protein, Mouse; QPP Protein, Mouse		
Amino Acid Sequence	A DNA sequence encoding the mouse DPP7 (Q9ET221) (Met1-Arg 506) was expressed, with a C-terminal polyhistidine tag.		
Solubility	Lyophilized from sterile PBS, pH 7.4 Please contact us for any concerns or special requirements. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.		
Formulation			

Introduction

Biological Activity

Measured by its ability to cleave the fluorogenic peptide substrate, Lys-Pro-AMC(KP-AMC). The specific activity is > 20,000 pmoles/min/μg.

Stability

Samples are stable for up to twelve months from date of receipt at -20℃ to -80℃ Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be

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aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Background

DPP7 (dipeptidylpeptidase 7), also known as DPPII and DPP2, is a post-proline cleaving aminopeptidase expressed in quiescent lymphocytes. Dipeptidyl peptidases (DPPs) have post-proline dipeptidyl aminopeptidase activity, cleaving Xaa-Pro dipeptides from the N-termini of proteins. DPPs mediate regulatory activity of their substrates and have been linked to a variety of diseases including type 2 diabetes, obesity and cancer. DPPs can bind specific voltage-gated potassium channels and alter their expression and biophysical properties and may also influence T cells. DPP proteins include DPRP1, DPRP2, DPP3, DPP7, DPP10, DPPX and CD26. It localizes to lysosomes. DPP7 localizes to lysosomes and exists as a homodimer via its leucine zipper motif and is involved in the degradation of oligopeptides. In response to calcium release, it can be secreted in its active form. It is essential for lymphocyte survival, as the inhibition of DPP7 results in quiescent cell apoptosis.

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