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California Bioscience

Product Datasheet

Product Name	Human Dipeptidyl Peptidase-IV
Cata No	CB501391
Source	*Human Placenta*
Synonyms	DPP-IV, DPPIV, DPP4, DPP-4, Dipeptidyl Peptidase-IV, Dipeptidyl Peptidase-4, CD26, adenosine deaminase complexing protein 2, Dipeptidylpeptidase-IV, CD-26, ADABP, ADCP2, DPIV, TP103, DP-IV, DP-4, DP4.

Description

Group IB secretory phospholipase A2 (sPLA2-IB) mediates cell proliferation, cell migration, hormone release and eicosanoid production via its receptor in peripheral tissues. In the CNS, high-affinity binding sites of sPLA2-IB have been documented. sPLA2-IB induced neuronal cell death in a concentrationdependent manner depending on PGD2 metabolites, especially Delta12-PGJ2 that might mediate sPLA2-IB-induced apoptosis. The secretory PLA2 (sPLA2) family, in which 10 isozymes have been identified, consists of lowmolecular weight, Ca2+-requiring secretory enzymes that have been implicated in a number of biological processes, such as modification of eicosanoid generation, inflammation, and host defense.

Physical Appearance

Filtered lyophilized (freeze-dried) powder.

Biological Activity

One unit is defined as the amount of enzyme which will hydrolyze 1μM of H-Gly-Pro-pNA per 1min at 25°C, pH 7.8.

Purity

Greater than 95% as determined by SDS-PAGE.

Formulation

Each 70ng were lyophilized from 29.1μl containing 2mM Tris-HCl, pH 8.0.

Reconstitution

Add deionized water to prepare a working stock solution of approximately 0.5mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.

Stability

Store lyophilized protein at -20°C. Aliquot the product after reconstitution to **avoid repeated freezing/thawing cycles**. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C. The lyophilized protein remains stable until the expiry date when stored at -20°C.

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