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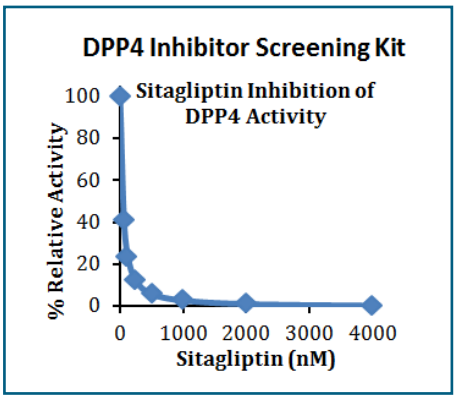
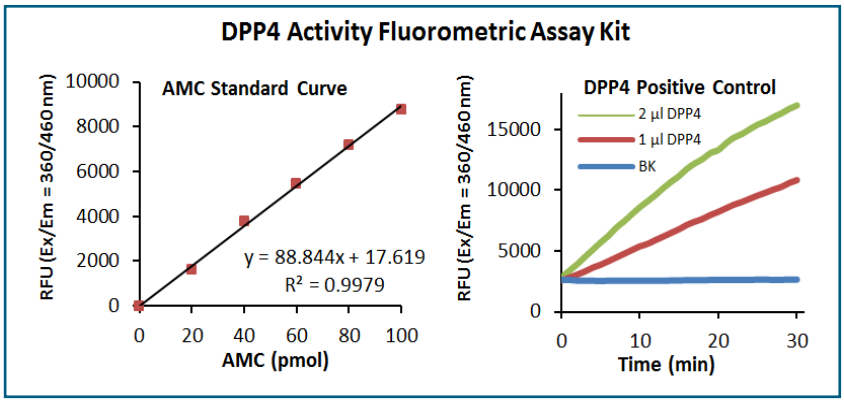
Dipeptidyl peptidase-4 (DPP4)

An enzyme contributing to Human Diabetes

DPP4, also known as adenosine deaminase complexing protein 2 or CD26 is a membrane-associated peptidase that is widely distributed in numerous tissues. This promiscuous enzyme has been reported to be involved in diverse functions such as cell matrix adhesion, co-stimulation during T cell activation, adenosine deaminase binding, migration and invasion of endothelial cells into collagenous matrices, and interaction with human immunodeficiency virus (HIV) proteins. One of the major roles of DPP4 is to regulate the glucose metabolism. It degrades the incretin hormones such as glucagon-like peptide-1 (GLP-1) and glucose-dependent insulinotropic peptide (GIP) which are involved in the regulation of insulin and have multiple anti-diabetic actions, including decreased glucagon secretion, enhancement of meal stimulated insulin secretion, improvements in β cell function etc. Inhibiting DPP4 activity by DPP4 inhibitors prevents the inactivation & prolongs the duration of action of these incretin hormones, which in turn help to correct the defective insulin & glucagons secretion that marks type 2 diabetes. The first DPP-4 inhibitor, sitagliptin became available in 2006 as a treatment for type 2 diabetes. Since then, DPP-4 inhibitors have emerged as an important drug class to treat type 2 diabetes.

BioVision is delighted to offer diverse range of DPP4 related products including assay kits, inhibitors & recombinant proteins for researchers pursuing research in the area of diabetes, signal transduction, apoptosis, inflammation & immune regulation.





Name	Cat. #
DPP4 Activity Fluorometric Assay Kit	K779-100
DPP4 Inhibitor Screening Kit (Fluorometric)	K780-100
Dipeptidyl Peptidase IV, Human Placenta	4709-10
Dipeptidylpeptidase IV, human recombinant	4710-10, 50, 1000
Diprotin A	2191-5, 25
Diprotin B	2192-5, 25
DPP IV Inhibitor, K 579	1963-1, 5
DPP IV Inhibitor, NVP DPP 728	1964-1, 5
Linagliptin	2240-50, 250
Sitagliptin Phosphate Monohydrate	1757-100, 1G
Vildagliptin	2188-10, 50

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