

DPP4 Activity Fluorometric Assay Kit

Cat. No. Kit-0314 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Simple procedure; takes ~ 40 minutes
	Fast and convenient
	Sensitive , reliable HTS assay
Description	Dipeptidyl peptidase-4 (DPP4), also known as adenosine deaminase complexing protein 2 or CD26 (cluster of differentiation 26) is a protein that, in humans, is encoded by the DPP4 gene. The substrates of CD26/DPP4 are proline (or alanine) containing peptides and include growth factors, chemokines, neuropeptides, and vasoactive peptides. DPP4 plays a major role in glucose metabolism. It is responsible for the degradation of incretins such as GLP-1 and hence its inhibition by drugs such as Sitagliptin have been used for treatment of diabetes mellitus type 2. DPP4 also appears to work as a suppressor in the development of cancer and tumors. In DPP4 Activity Assay Kit, DPP4 cleaves a substrate to release a quenched fluorescent group, AMC (7-Amino-4-Methyl Coumarin), (Ex/Em = 360/460 nm). This assay is rapid, simple, sensitive, and reliable, as well as, suitable for high throughput activity screening of DPP4. This kit detects DPP4 activity as low as 3 μl per well.
Applications	This kit detects DPP4 activity as low as 3 μ l per well
Usage	For Research Use Only! Not For Use in Humans.
Storage	-20°C
Size	100 assays

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Kit Components	• DPP4 Assay Buffer • DPP4 Substrate (H-Gly-Pro-AMC) • DPP4 Positive Control • AMC Standard (1 mM) • DPP4 Inhibitor (Sitagliptin)
Target Species	Mammalian
Detection method	Fluorescence (Ex/Em 360/460 nm)
Compatible Sample Types	Cell and Tissue culture lysates, plasma, serum, other biological fluids, cell culture medium etc

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