

# DPP4 Activity Fluorometric Assay Kit

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

## SPECIFICATION

<b>Product Overview</b>	<p>Simple procedure; takes ~ 40 minutes</p> <p>Fast and convenient</p> <p>Sensitive , reliable HTS assay</p>
<b>Description</b>	<p>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 <math>\mu</math>l per well.</p>
<b>Applications</b>	This kit detects DPP4 activity as low as 3 $\mu$ l per well
<b>Usage</b>	For Research Use Only! Not For Use in Humans.
<b>Storage</b>	-20°C
<b>Size</b>	100 assays

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<b>Kit Components</b>	<ul style="list-style-type: none"><li>• DPP4 Assay Buffer</li><li>• DPP4 Substrate (H-Gly-Pro-AMC)</li><li>• DPP4 Positive Control</li><li>• AMC Standard (1 mM)</li><li>• DPP4 Inhibitor (Sitagliptin)</li></ul>
<b>Target Species</b>	Mammalian
<b>Detection method</b>	Fluorescence (Ex/Em 360/460 nm)
<b>Compatible Sample Types</b>	Cell and Tissue culture lysates, plasma, serum, other biological fluids, cell culture medium etc

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