

DPPIV drug discovery Kit

Cat. No. Kit-0316 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The DPPIV Drug Discovery Kit is a complete assay system designed to screen DPPIV inhibitors, providing enough material to perform at least 96 assays.
Size	96 wells
Description	DPPIV (DPP4, CD26) is a member of the class of proteases known as prolyl peptidases, which cleave proteins after proline residues and is thought to play roles in diabetes, cancer, and autoimmune diseases, making it a target for drug discovery. The kit contains both a chromogenic substrate (H-Gly-Pro-pNA; $K_m=114 \mu\text{M}$) and a fluorogenic substrate (H-Gly-Pro-AMC; $K_m=50 \mu\text{M}$). Cleavage of the p-nitroaniline (pNA) from the colorimetric substrate increases absorbance at 405 nm. The fluorimetric assay is based on the cleavage of 7-amino-4-methylcoumarin (AMC) moiety from the C-terminus of the peptide substrate, which increases its fluorescence intensity at 460 nm. The kit is useful to screen inhibitors of DPPIV, a potential therapeutic target. A DPPIV inhibitor, P32/98 ($K_i=130 \text{ nM}$), is included for use as a control. Other DPP enzymes are available for specificity profiling.
Applications	Colorimetric detection, Fluorescence microscopy, HTS
Storage	-80°C
Kit Components	DPPIV enzyme (human, recombinant), pNA substrate, Calibration standard (p-nitroaniline), AMC substrate, Calibration standard (7-Amino-4-methylcoumarin), Inhibitor, Assay Buffer, ½-volume clear microplate

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