DPPIV drug discovery kit

The DPPIV Drug Discovery Kit is a complete assay system designed to screen DPPIV inhibitors, providing enough material to perform at least 96 assays. 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 µM) and a fluorogenic substrate (H-Gly-Pro-AMC; K_m=50 µM).

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 nM12), is included for use as a control. Other DPP enzymes are available for specificity profiling.

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Ordering Information

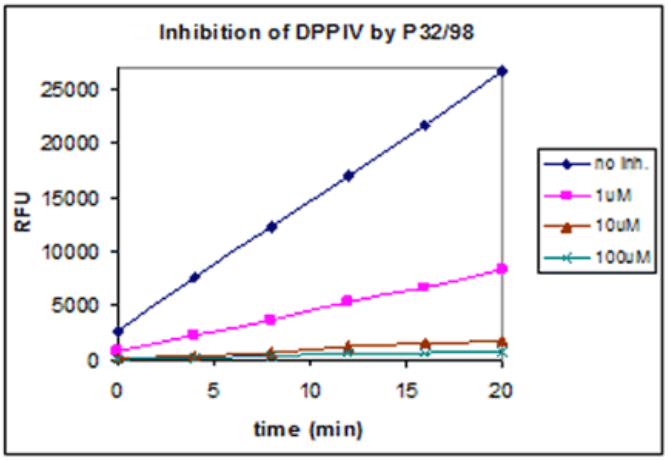
Order Online »

BML-AK499-0001	96 wells

Manuals, SDS & CofA

View Online »

- Measures DPPIV activity in plasma, serum, urine, and saliva
- Allows correlation of DPPIV activity levels with disease states or drug treatments
- Allows determination of efficacy of DPPIV inhibitors



Plot data as Relative Fluorescence Units (RFU) versus time for each sample.

Handling & Storage

Long Term Storage -80°C

Shipping Dry Ice

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name CD26, Dipeptidyl Peptidase IV, DPP4

Application Activity assay, Colorimetric detection, Fluorescent detection, HTS

Compatibility This product is compatible with the **Absorbance 96 Plate Reader**.

Contents 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

UniProt ID P27487

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ENZO LIFE SCIENCES, INC.
Phone: 800.942.0430
info-usa@enzolifesciences.com

European Sales Office
ENZO LIFE SCIENCES (ELS) AG
Phone: +41 61 926 8989
info-eu@enzolifesciences.com

Belgium, The Netherlands & Luxembourg
Phone: +32 3 466 0420
info-be@enzolifesciences.com

France
Phone: +33 472 440 655
info-fr@enzolifesciences.com

Germany
Phone: +49 7621 5500 526
info-de@enzolifesciences.com

UK & Ireland
Phone (UK customers): 0845 601 1488
Phone: +44 1392 825900
info-uk@enzolifesciences.com