Neutrophil elastase colorimetric drug discovery Kit

Cat. No. Kit-0323 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	It is a complete assay system designed to screen inhibitors of neutrophil elastase, providing enough material to perform at least 96 assays.
Size	96 wells
Description	Neutrophil elastase, also known as leukocyte elastase (LE), is a serine protease found in polymorphonuclear neutrophils (PMNs) that functions in inflammation. It can cleave a variety of proteins, including fibrous elastin, collagen, clotting factors, TNF-α, and α1-antichymotrypsin. It has been shown to be taken up by tumor cells and accelerate tumor growth through its degradation of insulin receptor substrate-1 (IRS-1). Because of its potential roles in cancer and inflammatory diseases such as emphysema, cystic fibrosis, and atherosclerosis, it is a target for drug discovery. The kit uses the chromogenic substrate MeOSuc-Ala-Ala-Pro-Val-pNA; cleavage of p-nitroaniline (pNA) from the substrate increases absorbance at 405nm. A neutrophil elastase inhibitor, elastatinal, is included for use as a control.
Applications	Colorimetric detection, HTS
Storage	-80°C
Kit Components	Neutrophil elastase (human), (purified)pNA substrate (MeOSuc-AAPV-pNA) (60µL; 20mM in DMSO)pNA calibration standard (p-nitroaniline) (1ml; 50µM in assay buffer)Elastatinal (inhibitor) (10µL; 20mM in DMSO)Neutrophil elastase assay buffer (20ml; 100mM HEPES, pH 7.25, 500mM NaCl, 0.05% Tween-20; liquid in a screw-

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	cap plastic bottle)96-well microplate

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