MMP-1 Inhibitor Screening Kit

Cat. No. Kit-0587 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The kit can be used to screen inhibitors of MMP-1. (100 assays) Simple procedure; takes ~ 35-45 minutesFast and convenientThe assay is simple, reliable and ensures accuracy and consistency when working with multiple samples.
Size	100 assays
Description	The Matrix metalloproteinase-1 (MMP-1, Interstitial collagenase, fibroblast collagenase) is a member of a multigene family of calcium-dependent, zinc-containing endoproteinases, the matrix metalloproteinases (MMPs). The MMPs are responsible for the degradation of the extracellular matrix (ECM) including collagens, elastins, gelatin, matrix glycoproteins and proteoglycan during normal development and disease processes. MMPs are regulated by hormones, growth factors and cytokines. MMP-1 belongs to the subclass, the collagenases, and along with MMP-8, and MMP-13 are the only members of the MMP family that are capable of degrading the types I, II and III interstitial collagens with high efficiency. These collagens are primarily found in bone, cartilage and skin. In MMP-1 Inhibitor Screening Kit, MMP-1 hydrolyzes a specific FRET substrate to release a quenched fluorescent group, which can be detected at Ex/Em = 490/520nm. In presence of potent MMP-1 inhibitors the hydrolyzation of substrate will be inhibited or stopped. The kit provides a rapid, simple, sensitive, and reliable test suitable as a high throughput screening assay of MMP-1 inhibitors.
Usage	This product is furnished for LABORATORY RESEARCH USE ONLY. Not for diagnostic or therapeutic use.

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Kit Components	Assay BufferSubstrateMMP-1 EnzymeInhibitor Control (5 μM GM 6001)
Detection method	Fluorometer

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