

32-20517: Recombinant Human MMP-2(Discontinued)

Reactivity : Human, Mouse

Alternative Name : Matrix Metalloproteinase-2, Gelatinase A, TBE-1

Description

Source: **E.coli** Matrix metalloproteinases (MMPs) are a family of endoproteases that require zinc and calcium for expressing catalytic activity. These enzymes play a central role in the maintenance and remodeling of the extracellular matrix. Elevated expression of their activity, caused either by up-regulation of their expression or down-regulation of their cognate inhibitors, has been implicated in various degenerative disorders, including arthritis, cardiovascular disease, skeletal growth-plate disorders, and cancer metastasis. MMP-2 is a secreted collagenase with specificity toward Type IV, V, VII, and X collagens. Recombinant Human MMP-2 is a 62.0 kDa protein containing the entire catalytic N-terminal domain and the C-terminal domain (552 amino acids).

Product Info

Amount : 2 µg / 10 µg

Purification : Purity: >= 98% by SDS-PAGE gel and HPLC analyses.

Content : This recombinant protein is supplied in lyophilized form.

Amino Acid : MYNFFPRKPK WDKNQITYRI IGYTPDLDPV TVDDAFARAF QVWSDVTPLR FSRIHDGEAD IMINFGRWEH
GDGYPFDGKD GLLAHAFAPG TGVGGD SHFD DDELWTLGEG QVVRVKYGNA DGEYCKFPFL
FNGKEYNSCT DTGRSDGFLW CSTTYNFEKD GKYGFCPHEA LFTMGNAEG QPCKFPFRFQ
GTSYDSCCTE GRTDGYRWCG TTEDYDRDKK YGFCPETAMS TVGGNSEGAP CVFPFTFLGN
KYESCTSAGR SDGKMWCAAT ANYDDDRKWG FCPDQGYSLF LVAAHEFGHA MGLEHSQDPG
ALMAPIYTYT KNFRLSQDDI KGIQELYGAS PDIDLGTGPT PTLGPVTPEI CKQDIVFDGI AQIRGEIFFF
KDRFIWRTVT PRDKPMGPLL VATFWPELPE KIDAVYEAPQ EEKAVFFAGN EYWIYSASTL ERGYPKPLTS
LGLPPDVQRV DAAFNWSKNK KTYIFAGDKF WRYNEVKKKM DPGFPKLIAD AWNAIPDNLD
AVVDLQGGGH SYFFKGAYYL KLENQSLKSV KFGSIKSDWL GC

Application Note

MMP-2 activity was measured by its ability to cleave a chromogenic peptide MMP-2 substrate at room temperature. At an MMP-2 concentration of 2.5 µg/ml, 50% cleavage was achieved at an incubation time of approximately 25 minutes.