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37-1379: Mouse MMP-2 / MMP2 Recombinant Protein (His Tag)(Discontinued)

Reactivity : Mouse
Alternative Name : Clg4a Protein, Mouse; GelA Protein, Mouse; MMP-2 Protein, Mouse

Description

Source : HEK293 Cells
Matrix Metalloproteinase-2 (MMP-2) is an enzyme that degrades components of the extracellular matrix and thus plays a pivotal role in cell migration during physiological and pathological processes. MMP-2 expression is dependent on extracellular matrix metalloproteinase inducer (EMMPRIN), Her2/neu, growth factors, cytokines, and hormones. Pro-MMP-2 activation needs MT1-MMP and TIMP-2 contribution. MMP-2 is changed in distribution and increased in amount in the ventral cochlear nucleus after unilateral cochlear ablation. A low level of MMP-2 is linked to favorable prognosis in patients with a hormone receptor-negative tumor, usually associated with high risk. As a zymogen requiring proteolytic activation for catalytic activity, MMP-2 has been implicated broadly in the invasion and metastasis of many cancer model systems, including human breast cancer (HBC). Blocking MMP-2 secretion and activation during breast carcinoma development may decrease metastasis. The detection of active MMP-2 alone or the rate of pro-MMP-2 and active MMP-2 is considered a very sensitive indicator of cancer metastasis. Modulation of MMP-2 expression and activation through specific inhibitors and activators may thus provide a new mechanism for breast cancer treatment.

Product Info

Amount :	2 / MMP2 Recombinant Protein (His Tag)(Discontinued) / 20 µg
Purification :	> 95 % as determined by SDS-PAGE.
Content :	Formulation Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Storage condition :	Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Amino Acid :	Met409-Cys662

Application Note

Endotoxin :< 1.0 EU per Ã‚Âµg protein as determined by the LAL method.
Other pack size also available.

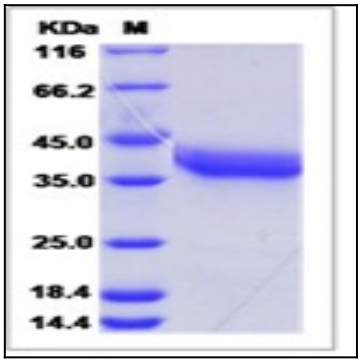


Fig 1: Mouse MMP-2 / MMP2 Recombinant Protein (His Tag)

For Research Use Only. Not for use in diagnostic/therapeutics procedures.