Product Datasheet

Recombinant Rat 72KDA type IV collagenase(Mmp2)

of the protein itself.

up to one week.

Catalog No: #AP70549

Description

Package Size: #AP70549-1 20ug #AP70549-2 100ug #AP70549-3 1mg



Orders: order@signalwayantibody.com Support: tech@signalwayantibody.com

| Product Name | Recombinant Rat 72KDA type IV collagenase(Mmp2) |
|-----------------------|---|
| Host Species | E.coli |
| Purification | Greater than 90% as determined by SDS-PAGE. |
| Immunogen Description | Expression Region:110-662aaSequence Info:Full Length |
| Other Names | 72KDA gelatinaseGelatinase AMatrix metalloproteinase-2;MMP-2 |
| Accession No. | P33436 |
| Calculated MW | 78.1 kDa |
| Tag Info | N-terminal 6xHis-SUMO-tagged |
| Target Sequence | ${\tt YNFFPRKPKWDKNQITYRIIGYTPDLDPETVDDAFARALKVWSDVTPLRFSRIHDGEADIMINFGRWEHGDGY}$ |
| | PFDGKDGLLAHAFAPGTGVGGDSHFDDDELWTLGEGQVVRVKYGNADGEYCKFPFLFNGREYSSCTDTGRS |
| | DGFLWCSTTYNFEKDGKYGFCPHEALFTMGGNGDGQPCKFPFRFQGTSYNSCTTEGRTDGYRWCGTTEDY |
| | DRDKKYGFCPETAMSTVGGNSEGAPCVFPFTFLGNKYESCTSAGRSDGKVWCATTTNYDDDRKWGFCPDQ |
| | ${\tt GYSLFLVAAHEFGHAMGLEHSQDPGALMAPIYTYTKNFRLSNDDIKGIQELYGPSPDADTDTGTGPTPTLGPV}$ |
| | TPEICKQDIVFDGIAQIRGEIFFFKDRFIWRTVTPRDKPTGPLLVATFWPELPEKIDAVYEAPQEEKAVFFAGNEY |
| | WVYSASTLERGYPKPLTSLGLPPDVQQVDAAFNWSKNKKTYIFSGDKFWRYNEVKKKMDPGFPKLIADSWNA |
| | IPDNLDAVVDLQGGGHSYFFKGAYYLKLENQSLKSVKFGSIKSDWLGC |
| Formulation | Tris-based buffer50% glycerol |
| | |

Background

Storage

Ubiquitinous metalloproteinase that is involved in diverse functions such as rodeling of the vasculature, angiogenesis, tissue repair, tumor invasion, inflammation, and atherosclerotic plaque rupture. As well as degrading Extracellular domain matrix proteins, can also act on several nonmatrix proteins such as big endothelial 1 and beta-type CGRP promoting vasoconstriction. Also cleaves KISS at a Gly-|-Leu bond. Appears to have a role in myocardial cell death pathways. Contributes to myocardial oxidative stress by regulating the activity of GSK3beta. Cleaves GSK3beta in vitro. Involved in the formation of the fibrovascular tissues .PEX, the C-terminal non-catalytic fragment of MMP2, posseses anti-angiogenic and anti-tumor properties and inhibits cell migration and cell adhesion to FGF2 and vitronectin. Ligand for integrin alpha-v, beta3 on the surface of blood vessels.

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability

Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C. Notes: Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for

References

Homology cloning of rat 72KDA type IV collagenase cytokine and second-messenger inducibility in glomerular mesangial cells.Marti H.P., McNeil L., Davies M., Martin J., Lovett D.H.Biochem. J. 291:441-446(1993)Research Topic:Others

| Note: This product is for in vitro research use only and is not intended for use in humans or animals. | | | |
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