

Recombinant mouse Collagenase 3

Catalog No: #AP72356

Package Size: #AP72356-1 20ug #AP72356-2 100ug #AP72356-3 1mg

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Support: tech@signalwayantibody.com

Description

Product Name	Recombinant mouse Collagenase 3
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:105-472aaSequence Info:Full Length
Other Names	Matrix metalloproteinase-13 ;MMP-13
Accession No.	P33435
Uniprot	P33435
GeneID	17386;
Calculated MW	46.5 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	YNVFPRTLKWSQTNLTIRVNYTPDMSHSEVEKAFRKAFKVWSDVTPLNFTRIYDGTADIMISFGTKEHGDFYP FDGPSGLLAHAFPPGPNYGGDAHFDDEETWTSSSKGYNLFVAAHELGHSLGLDHSKDPGALMFPIYTYTGK SHFMLPDDDVQGIQFLYGPGEDEPNPKHPKTPEKCDPALSLDAITSLRGETMIFKDRFFWRLHPQQVEAELFL TKSFWPELPNHVDAAYEHPSRDLMFIFRGRKFWALNGYDILEGYPRKISDLGFPKEVKRLSAAVHFENTGKTL FFSENHWSYDDVNQTMKDYPRLIEEEFPGIGNKVDVAYEKNGYIYFNGPIQFEYSIWSNRIVRMPTNSIL WC
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. 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 up to one week.

Background

Plays a role in the degradation of Extracellular domain matrix proteins including fibrillar collagen, fibronectin, TNC and ACAN. Cleaves triple helical collagens, including type I, type II and type III collagen, but has the highest activity with soluble type II collagen. Can also degrade collagen type IV, type XIV and type X. May also function by activating or degrading key regulatory proteins, such as TGFB1 and CTGF. Plays a role in wound healing, tissue remodeling, cartilage degradation, bone development, bone mineralization and ossification. Required for normal embryonic bone development and ossification. Plays a role in the healing of bone fractures via endochondral ossification. Plays a role in wound healing, probably by a mechanism that involves proteolytic activation of TGFB1 and degradation of CTGF. Plays a role in keratinocyte migration during wound healing. May play a role in cell migration and in tumor cell invasion.

References

Role of matrix metalloproteinase 13 in both endochondral and intramembranous ossification during skeletal regeneration.Behonick D.J., Xing Z., Lieu S., Buckley J.M., Lotz J.C., Marcucio R.S., Werb Z., Miclau T., Colnot C.PLoS ONE 2:E1150-E1150(2007)Research Topic:Others

Note: This product is for in vitro research use only