

Initial activation of proMMP13 by MMP3

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Introduction

Reactome is open-source, open access, manually curated and peer-reviewed pathway database. Pathway annotations are authored by expert biologists, in collaboration with Reactome editorial staff and cross-referenced to many bioinformatics databases. A system of evidence tracking ensures that all assertions are backed up by the primary literature. Reactome is used by clinicians, geneticists, genomics researchers, and molecular biologists to interpret the results of high-throughput experimental studies, by bioinformaticians seeking to develop novel algorithms for mining knowledge from genomic studies, and by systems biologists building predictive models of normal and disease variant pathways.

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Literature references

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- Sidiropoulos, K., Viteri, G., Sevilla, C., Jupe, S., Webber, M., Orlic-Milacic, M. et al. (2017). Reactome enhanced pathway visualization. *Bioinformatics*, 33, 3461-3467. [↗](#)
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Reactome database release: 88

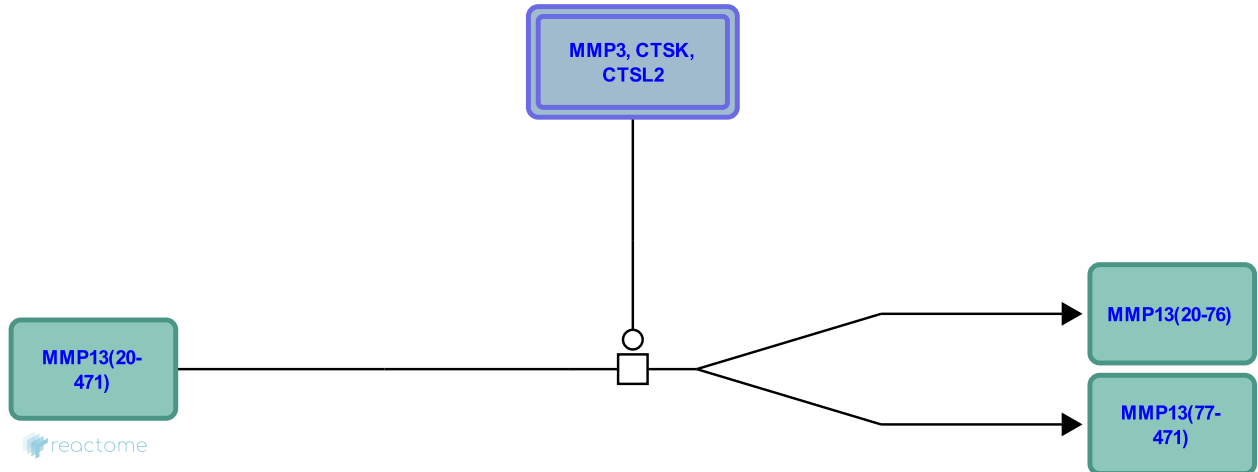
This document contains 1 reaction ([see Table of Contents](#))

Initial activation of proMMP13 by MMP3 [↗](#)

Stable identifier: R-HSA-1604752

Type: transition

Compartments: extracellular region



MMP3 initially cleaves proMMP13 at Gly76-Leu77 followed by autoprocessing at Glu103-Tyr104 (Knauper et al. 1996).

Literature references

Smith, B., López-Otin, C., Knight, G., Knäuper, V., Murphy, G. (1996). Biochemical characterization of human collagenase-3. *J Biol Chem*, 271, 1544-50. [↗](#)

Editions

2011-09-09	Authored	Jupe, S.
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