

## Ficain

## Chemical Properties

CAS No. : 9001-33-6

Formula:

Molecular Weight:

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Ficain is a protease mixture extracted from the latex of <i>Ficus hispida</i> L. and <i>Ficus carica</i> . Ficain exhibits enzyme-specific activity during fruit ripening in varying proportions, enabling applications in protein hydrolysis, food processing, bioactive peptide production, and antibody fragment preparation, providing a versatile biochemical tool for industrial and laboratory enzymology studies.
Targets(IC50)	Others
In vitro	Ficain (0-200 µg/mL) exhibited a dose-dependent increase in absorbance at 400 nm wavelength when using p-nitrophenyl carbobenzoxyglycinate as the substrate [2].

## Solubility Information

Solubility	H2O: ≥ 8 mg/mL, Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Reference

Morellon-Sterling R, et al. Ficain: A protease extract with relevance in biotechnology and biocatalysis. *Int J Biol Macromol.* 2020 Nov 1;162:394-404.

Liener I E, Friedenson B. [17] Ficain[M]//Methods in enzymology. Academic Press, 1970, 19: 261-273.

RatanaKhanokchai K. Purification and Characterization of Cysteine Proteinase from Some Vegetables and fruits[J]. 2009.

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