

## Ficain

Cat. No.:	HY-P3028
CAS No.:	9001-33-6
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	-20°C, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)

# Ficain

### SOLVENT & SOLUBILITY

In Vitro	H <sub>2</sub> O : ≥ 10 mg/mL * "≥" means soluble, but saturation unknown.
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### BIOLOGICAL ACTIVITY

Description	Ficain is an enzyme extract composed of several proteases that can be isolated from <i>Ficus hispida</i> L. and the latex of fig ( <i>Ficus carica</i> ). Ficain has different specificities in different proportions during fruit ripening. Ficain is widely used in protein hydrolysis, food, production of bioactive peptides and antibody fragments <sup>[1][2]</sup> .
In Vitro	Ficain (0-8 µg/mL) uses casein as the substrate and measured the absorbance of trichloroacetic acid filtrate at 280 nm to detect Ficain activity <sup>[2]</sup> . Ficain (0-200 µg/mL) increases the absorbance at 400 nm with dose dependent manner when p-nitrophenyl carbobenzoxyglycinate was used as the substrate <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Morellon-Sterling R, et al. Ficin: A protease extract with relevance in biotechnology and biocatalysis. *Int J Biol Macromol*. 2020 Nov 1;162:394-404.
- [2]. Liener I E, Friedenson B. [17] Ficin[M]//*Methods in enzymology*. Academic Press, 1970, 19: 261-273.
- [3]. RatanaKhanokchai K. Purification and Characterization of Cysteine Proteinase from Some Vegetables and fruits[J]. 2009.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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