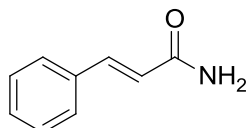


## Cinnamamide

Code No.: **BIA-C1733**

Pack sizes: **5 mg, 25 mg**



Synonyms : 3-Phenyl-2-propenamamide; 2-Benzylideneacetamide; 3-Phenylacrylamide; 3-Phenylpropenamamide; AG835; Cinnamic acid amide; Coumaramide; NSC 32953

### Specifications

CAS #	: <b>621-79-4</b>
Molecular Formula	: <b>C<sub>9</sub>H<sub>9</sub>NO</b>
Molecular Weight	: <b>147.2</b>
Source	: <b><i>Streptomyces</i> sp.</b>
Appearance	: <b>White solid</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in ethanol, methanol, DMF or DMSO.</b>

### Application Notes

Cinnamamide (cinnamide) is an amide from a family of phenylpropanoid derivatives of lignin precursors. It is found in crude extracts of several species of *Streptomyces*. Cinnamamide was first reported as a monoamine oxidase inhibitor but was subsequently shown to have weak activity in a diverse range of bioassays. Cinnamamide is a useful standard for analytical and bioassay dereplication of crude microbial extracts.

### References

1. trans-Cinnamic acid amide as a metabolic product of *Streptomyces*. Sekizawa Y.J., *Biochem.* 1958, 45, 9.
2. Biosynthesis of cinnamamide and detection of phenylalanine ammonia-lyase in *Streptomyces verticillatus*. Bezanson G.S. et al., *Can. J. Microbiol.* 1970, 16, 147.
3. Metabolomics-guided analysis of isocoumarin production by *Streptomyces* species MBT76 and biotransformation of flavonoids and phenylpropanoids. Wu C. et al., *Metabolomics* 2016, 12, 1.
4. Monoamine oxidase inhibitors isolated from fermented broths. Takeuchi. T et al., *J. Antibiot.* 1973, 26, 162.