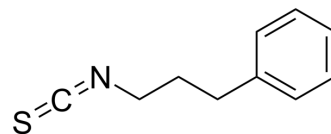


3-Phenylpropyl isothiocyanate

Cat. No.:	HY-115771
CAS No.:	2627-27-2
Molecular Formula:	C ₁₀ H ₁₁ NS
Molecular Weight:	177.27
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	3-Phenylpropyl isothiocyanate has a stronger inhibitory effect on N-nitrosomethyl-benzylamine (NMBA) tumorigenesis. 3-Phenylpropyl isothiocyanate has chemopreventive effects ^{[1][2]} .
In Vivo	3-Phenylpropyl isothiocyanate (5, 1, or 0.2 μmol; gavage; A/J mice; daily for 4 consecutive days prior to administration of 10 μmol of NNK by i.p. injection) effectively inhibited NNK-induced lung tumors. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Morse MA, et al. Structure-activity relationships for inhibition of 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone lung tumorigenesis by arylalkyl isothiocyanates in A/J mice. *Cancer Res.* 1991;51(7):1846-1850.
- [2]. Nishikawa A, et al. Chemopreventive effects of 3-phenylpropyl isothiocyanate on hamster lung tumorigenesis initiated with N-nitrosobis(2-oxopropyl)amine. *Jpn J Cancer Res.* 1996;87(2):122-126.

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

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