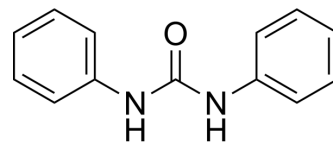


1,3-Diphenylurea

Cat. No.:	HY-W014286		
CAS No.:	102-07-8		
Molecular Formula:	C ₁₃ H ₁₂ N ₂ O		
Molecular Weight:	212.25		
Target:	Biochemical Assay Reagents		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	1,3-Diphenylurea is a biochemical reagent that can be used as a biological material or organic compound for life science related research.
In Vitro	1,3-Diphenylurea is a cytokinin. It increases fresh weight of tobacco plant tissue when used at concentrations ranging from 1 to 16 mg/L in growth media. ¹ 1,3-Diphenylurea (32 and 100 μM) increases the growth of cultured <i>P. lunatus</i> callus tissue. ² Exogenous 1,3-diphenylurea (32 and 100 μM) added during first-passage culture induces second-passage cytokinin autonomy in cultured <i>P. lunatus</i> tissue. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Dyson, WH, Fox, JE , and McChesney, JD Short term metabolism of urea and prime cytokinins *Plant Physiol.* 49(4):506-513(1970).
- [2]. Mok, MC, Kim, S.-G., Armstrong, DJ, et al. Induction of cytokinin autonomy by N,N'-diphenylurea in tissue cultures of *Phaseolus lunatus* L. *Proc. Natl. Acad. Sci. USA* 76(8):3880-3884(1979).

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

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