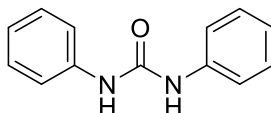


1,3-Diphenylurea

Code No.: **BIA-D2582**

Pack sizes: **25 mg, 100 mg**



Synonyms : AD 30, DPU, N-Phenyl-N'-phenylurea, NSC 227401, NSC 8485, s-Diphenylurea, sym-Diphenylurea

Specifications

CAS #	: 102-07-8
Molecular Formula	: C₁₃H₁₂N₂O
Molecular Weight	: 212.25
Source	: Synthetic
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol or DMSO

Application Notes

1,3-Diphenylurea is an endogenous metabolite of plants present in coconut milk (*Cocos nucifera*) among other sources. In combination with casein hydrolysate, 1,3-diphenylurea promotes transport of photosynthetic products in the vascular tissue of carrots and promotes growth. 1,3-Diphenylurea has weak cytokinin activity.

References

1. The identification of Compound A from coconut milk as 1,3-diphenylurea. Shantz E.M. and Steward F.C. J Am Chem Soc. 1955, 77, 6351.
2. Effect of cytokinin-active phenylurea derivatives on shoot multiplication, peroxidase and superoxidase dismutase activities of in vitro cultured carnation. Genkov T. and Ivanova I. Bulg J Plant Physiol. 1995, 21, 73.