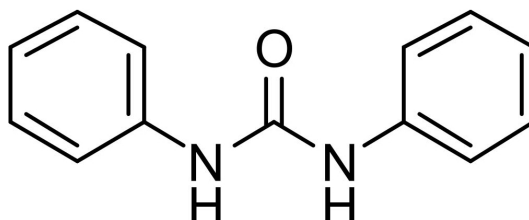


Diphenylurea, 1,3-

Code No.: BIA-D2582

Pack sizes.: 25mg, 100mg



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	: -
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, originally isolated from coconut milk in 1955. In combination with casein hydrolysate, 1,3-diphenylurea was found to promote 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.