

Product Information Sheet

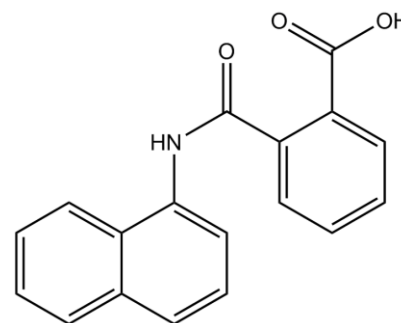
N6250

N-1-naphthylphthalamic acid (NPA)

Synonyms: NPA, Naptalam
 CAS: 132-66-1
 Formula: C₁₈H₁₃NO₃
 Mol. Weight: 291.3 g/mol

Properties

Form: Solid
 Appearance: N/A
 Application: Polar auxin-transport inhibitor
 Solubility: 200 mg/L in DMSO
 Storage Temp: Room temperature



Typical Working Concentration: Varies by application. Concentration should be determined by end user.

Application Notes

Synthetic polar auxin transport inhibitors block auxin efflux out of the cell through interfering with PIN1 efflux carrier proteins which take auxin from endosomal compartments to the plasma membrane, thus causing net accumulation of auxin within the cell.

Please Note: While *PhytoTechnology Laboratories™* tests each lot of this product with two or more plant cell/ tissue culture lines, it is the sole responsibility of the purchaser to determine the appropriateness of this product for the specific plants that are being cultured and applications that are being used.

References

Merck, 13 6444
 Casimiro *et al.* (2001) *The Plant Cell* Vol 13, pg 843-852.
 Geldner *et al.* (2001) *Nature* Vol 413, pg 425-428
 Jensen *et al.* (1998) *Plant Physiology* Vol 116 pg 455-462

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