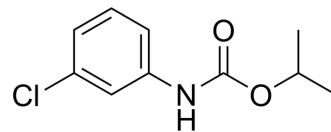


## Chlorpropham

Cat. No.:	HY-W014240
CAS No.:	101-21-3
Molecular Formula:	C <sub>10</sub> H <sub>12</sub> ClNO <sub>2</sub>
Molecular Weight:	213.66
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Chlorpropham is a carbamate herbicide and plant growth regulator. Chlorpropham inhibits mitosis and cell division by interfering with the organisation of the spindle microtubules <sup>[1][2]</sup> .
In Vitro	Chlorpropham (1-20 μM; 6 d) inhibits cell division of <i>D. salina</i> cultures <sup>[2]</sup> . Chlorpropham (10 or 20 μM; 6 d) shows increase of phytoene in <i>D. salina</i> cultures under red LED light <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

- [1]. Göckener B, et al. Fate of Chlorpropham during High-Temperature Processing of Potatoes. *J Agric Food Chem*. 2020 Feb 26;68(8):2578-2587.
- [2]. Yanan Xu, et al. Phytoene and phytofluene overproduction by *Dunaliella salina* using the mitosis inhibitor chlorpropham. *Algal Research*, Volume 52, December 2020, 102126.

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

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