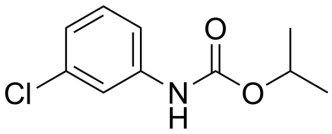
Chlorpropham

Cat. No.:	HY-W014240
CAS No.:	101-21-3
Molecular Formula:	$C_{10}H_{12}ClNO_2$
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[1][2].
In Vitro	Chlorpropham (1-20 μM; 6 d) inhibits cell division of D. salina cultures[2]. Chlorpropham (10 or 20 μM; 6 d) shows increasement of phytoene in D. salina cultures under red LED light[2]. 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.

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