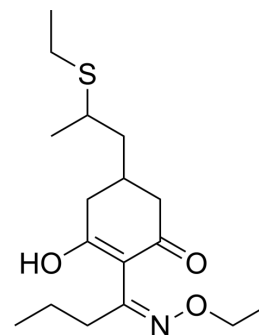


Sethoxydim

Cat. No.:	HY-135753
CAS No.:	74051-80-2
Molecular Formula:	C ₁₇ H ₂₉ NO ₃ S
Molecular Weight:	327.48
Target:	Acetyl-CoA Carboxylase
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Sethoxydim is a postemergent herbicide. Sethoxydim inhibits plant acetyl-coenzyme A carboxylase (ACCase) activity ^{[1][2]} .
In Vitro	Sethoxydim (0-100 μM, 5 min) inhibits activity of acetyl-coenzyme A carboxylase from corn chloroplasts ^[1] . Sethoxydim (1 μM) inhibits growth rate, chlorophyll and lipid contents in rape leaves ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Burton JD, et al. Inhibition of plant acetyl-coenzyme A carboxylase by the herbicides sethoxymid and haloxyfop. *Biochem Biophys Res Commun.* 1987 Nov 13;148(3):1039-44.
- [2]. Belkebir A, et al. Sethoxydim treatment inhibits lipid metabolism and enhances the accumulation of anthocyanins in rape (*Brassica napus* L.) leaves. *Pestic Biochem Physiol.* 2013 Sep;107(1):120-6.

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

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