

# Simazine/Atrazine (HYB266-02): sc-58033

## BACKGROUND

Simazine is an aquatic herbicide used to control algae and submerged aquatic vegetation. Simazine is effective at controlling unicellular and attached filamentous algae. This herbicide works by interrupting food production, causing the plant to deplete its starch reserve. Atrazine is an s-Triazine-ring herbicide that is used worldwide to destroy broad-leaf and grassy weeds in major crops. Atrazine works by binding to the plastoquinone-binding protein in photosystem II, thereby inhibiting electron transport. The half-life of Atrazine in soil is between 15 to 100 days. Atrazine is used in conservation tillage systems, as it helps prevent soil erosion and runoff. Atrazine and its derivatives are commonly used in many industrial processes, such as the manufacture of dyes and explosives. Atrazine is biodegraded by dechlorination, after which the other ring substituents are removed by amidohydrolases, or its amino groups can be dealkylated.

## REFERENCES

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## SOURCE

Simazine/Atrazine (HYB266-02) is a mouse monoclonal antibody raised against carrier protein coupled Simazine derivative.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PRODUCT

Each vial contains 100 µg IgG<sub>1</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

Simazine/Atrazine (HYB266-02) is recommended for detection of Simazine/Atrazine by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with terbuthylazine, desethylterbuthylazine and desisopropylatrazine.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) for detailed protocols and support products.