



Atrazine (1F9): sc-80466

BACKGROUND

Atrazine, or 2-chloro-4-(ethylamine)-6-(isopropylamine)-s-Triazine, is an s-Triazine-ring herbicide that is used worldwide to destroy broadleaf 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

Atrazine (1F9) is a mouse monoclonal antibody raised against Atrazine coupled to PPD.

RESEARCH USE

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

PRODUCT

Each vial contains 100 µg IgG_{2a} in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Atrazine (1F9) is recommended for detection of Atrazine by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

SELECT PRODUCT CITATIONS

1. Vaid, K., Dhiman, J., Kumar, S. and Kumar, V. 2022. Citrate and glutathione capped gold nanoparticles for electrochemical immunosensing of Atrazine: effect of conjugation chemistry. *Environ. Res.* 217: 114855.

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 for detailed protocols and support products.