# SANTA CRUZ BIOTECHNOLOGY, INC.

# Triazines (HYB276-02): sc-58063



#### BACKGROUND

Triazine compounds demonstrate a chemical structure of heterocyclic rings containing three nitrogen atoms. Industrial applications that utilize Triazines include the manufacturing of herbicides, resins, and also reactive dyes. Homologous to the six-membered benzene ring, except for three carbons that replace the nitrogens, Triazine chemical structures exist in three different isomers. The most notorious, 1,3,5-triazine, is necessary to manufacture industrial resins. In addition, 2,4,6-trichloro-1,3,5-triazine is the backbone of various herbicides. Chlorine may integrate into these triazines to further elucidate reactive dyes. Lastly, 1,2,4-triazine derivatives known as the BTPs, are likely extractants for use in advanced nuclear reprocessing of used fuel.

## REFERENCES

- Shechter, M., Xing, B., Kopinke, F.D. and Chefetz, B. 2006. Competitive sorption-desorption behavior of Triazine herbicides with plant cuticular fractions. J. Agric. Food Chem. 54: 7761-7768.
- Hua, W.Y., Bennett, E.R., Maio, X.S., Metcalfe, C.D. and Letcher, R.J. 2006. Seasonality effects on pharmaceuticals and s-Triazine herbicides in waste water effluent and surface water from the Canadian side of the upper Detroit River. Environ. Toxicol. Chem. 25: 2356-2365.
- Lopez-Torres, E., Mendiola, M.A. and Pastor, C.J. 2006. Crystal structures of Triazine-3-thione derivatives by reaction with copper and cobalt salts. Inorg. Chem. 45: 3103-3112.
- Zhou, X.P., Li, D., Zheng, S.L., Zhang, X. and Wu, T. 2006. Cu(I) or Cu(I)-Cu(II) mixed-valence complexes of 2,4,6-Tri(2-pyridyI)-1,3,5-triazine: syntheses, structures, and theoretical study of the hydrolytic reaction mechanism. Inorg. Chem. 45: 7119-7125.
- Kelly, T.R., Elliott, E.L., Lebedev, R. and Pagalday, J. 2006. Synthesis of the pyrazolo[4,3-e][1,2,4]triazine family of natural products: nostocine A, fluviol A, and pseudoiodinine. J. Am. Chem. Soc. 128: 5646-5647.
- Boyd, S., Gravelle, M. and Politzer, P. 2006. Nonreactive molecular dynamics force field for crystalline hexahydro-1,3,5-trinitro-1,3,5 Triazine. J. Chem. Phys. 124: 104508.
- Saczewski, F. and Bulakowska, A. 2006. Synthesis, structure and anticancer derivatives. Eur. J. Med. Chem. 41: 611-615.
- Aggarwal, V., Li, H. and Teppen, B.J. 2006. Triazine adsorption by saponite and beidellite clay minerals. Environ. Toxicol. Chem. 25: 392-399.
- Trimble, A.J. and Lydy, M.J. 2006. Effects of Triazine herbicides on organophosphate insecticide toxicity in *Hyalella azteca*. Arch. Environ. Contam. Toxicol. 51: 29-34.

#### SOURCE

Triazines (HYB276-02) is a mouse monoclonal antibody raised against carrier protein coupled Triazine derivative.

#### PRODUCT

Each vial contains 100  $\mu g~lg G_1$  in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

# APPLICATIONS

Triazines (HYB276-02) is recommended for detection of proteins conjugated with triazine derivatives by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other closely related compounds.

#### **STORAGE**

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

### **RESEARCH USE**

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

#### PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.