Anti-Microbial active Dehydrodivanillin based Bis-Triazoles via the ‘Click’ reaction

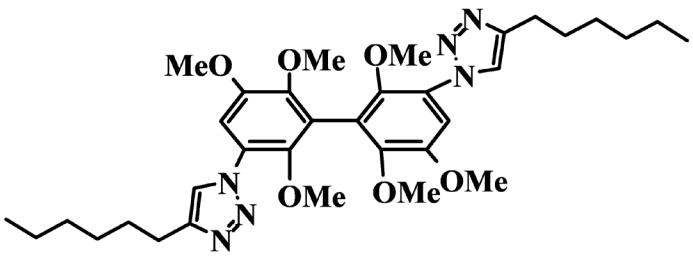
Name

Dehydrodivanillin based biaryl triazoles

Status

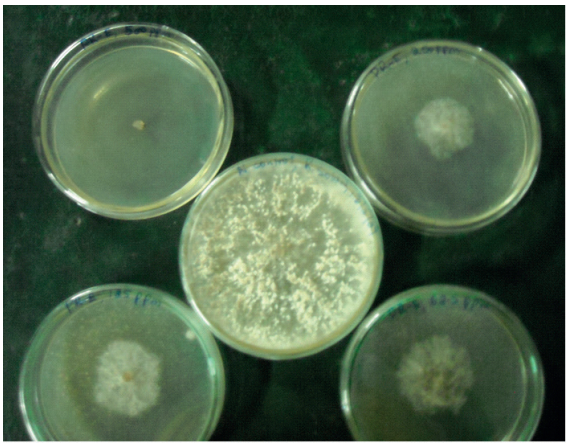
Available for development and commercialization

Chemical Structure



Sectors of Applications

As anti-fungals



Rhizoctonia solani

Summary

A range of dehydrodivanillin based bis-1, 2, 4-triazoles are available via the ‘click’ reaction as anti-fungal agents.

Additional information, if any

Manoj Gaur, Mayurika Goel, L. Sridhar, Tara Devi S. Ashok, S. Prabhakar, P. Dureja, P. Raghunathan and S. V. Eswaran (2012), Synthesis, characterization and antifungal activity of biaryl based bis-1, 2, 3- triazoles using Click reaction, *Monatshefte fuer Chemie*, 143:283-288

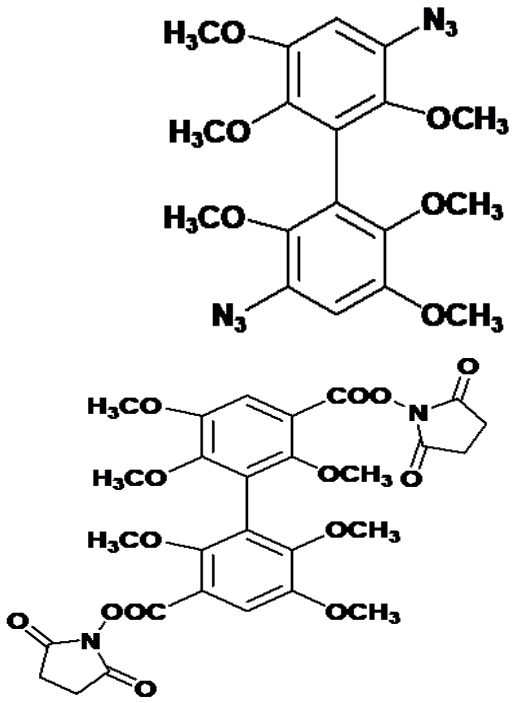
Crosslinkers

Homobifunctional crosslinker

Name
Dehydrodivanillin Biaryl crosslinker

Status
Available for development and commercialization

Chemical Structure



A bis-azido Phoreactive Homobifunctional crosslinker
A thermally amine reactive Di- NHS Homobifunctional crosslinker

Sector of application
- Applications in studies on protein-protein interaction
- Application in material science
- Application in biological science

Summary

To conclude, a new biaryl-based bisazide has been synthesized and evaluated as a crosslinker. Devices fabricated using crosslinked P3HT show an increase in hole mobility, as determined by the SCLC method, by a factor of one order of magnitude. This study could be useful for fabrication of devices, especially thin-film transistors and solar cells.

Additional Information

•Jaya Lohani, V. R. Balakrishnan, Manoj Gaur, P. Raghunathan, **S. V. Eswaran, (2011)**, Biaryl Crosslinkers I. Crosslinking of a Bis-azidobiaryl with Poly (3-hexylthiophene), *Canadian J. Chem.*, 89:(5) 549-554