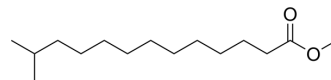


Methyl 12-methyltridecanoate

| | |
|---------------------------|---|
| Cat. No.: | HY-153936 |
| CAS No.: | 5129-58-8 |
| Molecular Formula: | C ₁₅ H ₃₀ O ₂ |
| Molecular Weight: | 242.4 |
| Target: | Apoptosis; ROS Kinase |
| Pathway: | Apoptosis; Protein Tyrosine Kinase/RTK |
| Storage: | Please store the product under the recommended conditions in the Certificate of Analysis. |



BIOLOGICAL ACTIVITY

| | |
|-------------------------------------|--|
| Description | Methyl 12-methyltridecanoate ((R)-betaxolol hydrochloride) is a biosurfactant extracted from <i>Brevibacterium casei</i> LS14. Methyl 12-methyltridecanoate provides a novel approach for functionalizing the silver nanoparticles higher biocompatibility in vivo environmental ^[1] . |
| IC₅₀ & Target | ROS ^[1] |
| In Vivo | Methyl 12-methyltridecanoate ((R)-betaxolol hydrochloride) (up to 100 µg/ml, 72 h) decreases the mortality and other physiological abnormalities on embryonic zebrafish induced by silver nanoparticles ^[1] . Methyl 12-methyltridecanoate (up to 100 µg/ml, 72 h) decreases the oxidative stress induced by ROS and cell apoptosis in zebrafish embryos induced by silver nanoparticles ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. |

REFERENCES

[1]. Khushbu Kumari, et al. Biosurfactant-functionalized Silver nanoparticles infer intrinsic proximal interaction via Lysine and glutamic acid for reduced in vivo molecular biotoxicity with embryonic zebrafish through oxidative stress and apoptosis. *Journal of Environmental Chemical Engineering* Volume 11, Issue 3, June 2023, 110147

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

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