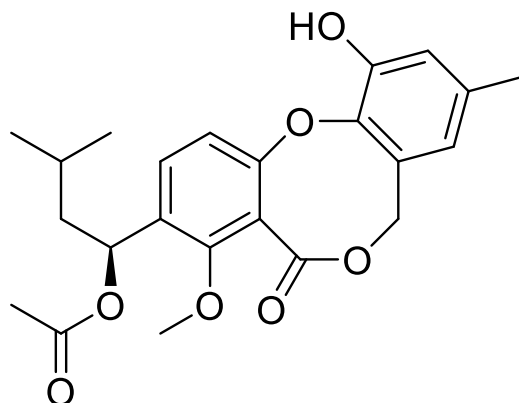


## Purpactin A

Code No.: **BIA-P2925**

Pack sizes: **1 mg, 5 mg**



Synonyms :

## Specifications

CAS #	:	<b>133806-59-4</b>
Molecular Formula	:	<b>C<sub>23</sub>H<sub>26</sub>O<sub>7</sub></b>
Molecular Weight	:	<b>414.5</b>
Source	:	<b><i>Penicillium sp.</i></b>
Appearance	:	<b>Light brown solid</b>
Purity	:	<b>&gt;95% by HPLC</b>
Long Term Storage	:	<b>-20°C</b>
Solubility	:	<b>Soluble in ethanol, methanol, DMF or DMSO.</b>

## Application Notes

Purpactin A was first isolated from *Penicillium purpurogenum* in 1991 by Omura and colleagues at the Kitasato Institute, Japan. Purpactin A is a moderately potent inhibitor of acyl-CoA: cholesterol acyltransferase. Purpactin A blocks TMEM16A chloride channels and mucin secretion in airway epithelial cells.

## References

1. Purpactins, new inhibitors of acyl-CoA: cholesterol acyltransferase produced by *Penicillium purpurogenum*. I. Production, isolation and physico-chemical and biological properties. Tomoda H. et al. *J. Antibiot* 1991, 44, 136.
2. Purpactins, new inhibitors of acyl-CoA: cholesterol acyltransferase produced by *Penicillium purpurogenum*. II. Structure elucidation of purpactins A, B and C. Nishida H. et al. *J Antibiot* 1991, 44, 144.
3. A fungus-derived purpactin A as an inhibitor of TMEM16A chloride channels and mucin secretion in airway epithelial cells. Yimnual C. et al. *Biomed Pharmacother* 2021, 139, 111583.