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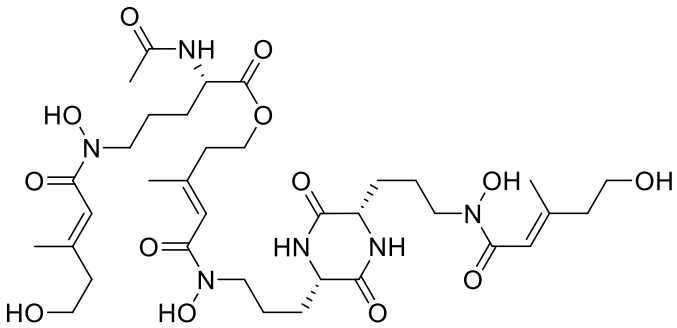
PRODUCT DATA SHEET

Coprogen

Code No.: **BIA-C2975**

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



Synonyms :

Specifications

CAS #	:	**31418-71-0**
Molecular Formula	:	**$C_{35}H_{53}FeN_6O_{13}$**
Molecular Weight	:	**821.7**
Source	:	***Penicillium* sp.**
Appearance	:	**Orange solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in ethanol, methanol, DMF or DMSO.**

Application Notes

Coprogen is a dark red metabolite originally isolated from Pilobolus species in 1952 by researchers from American Cyanamid. Coprogen is a rare amphiphilic siderophore that acts as a growth factor for coprophilic fungi. Secreted coprogen can be scavenged by some Gram-negative bacteria via the TonB-dependent transporter FhuE. Coprogen has weak phytotoxic activity in a leaf-wounding assay.

References

1. Coprogen, a new growth factor for coprophilous fungi. Hesseltine C.W. et al. J Am Chem Soc. 1952, 74, 1362.
2. Determination of the molecular basis for coprogen import by Gram-negative bacteria. Grinter R. & Lithgow T. IUCrJ 2019, 6, 401-411.
3. Production of two phytotoxic metabolites by the fungus Alternaria cassia. Ohra J. et al. Biosci Biotech Biochem. 1995, 59, 1782.

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Building C, 28-54 Percival Road, Smithfield, NSW 2164, AUSTRALIA

Tel: 61 2 9757 4515 Fax: 61 2 9757 2586 Web: www.bioaustralis.com Email: info@bioaustralis.com