

PRODUCT DATA SHEET

Code No.: BIA-M2539

Pack sizes: 0.1 mg, 0.5 mg

Synonyms : Monascuspiloin

Specifications

Monascinol

CAS # : 1011244-19-1

Source : Penicillium sp.

Appearance : Orange solid

Purity : >95% by HPLC

Long Term Storage : -20°C

Solubility : Soluble in methanol or DMSO

Application Notes

Monascinol is a yellow-orange pigment isolated from the fungus Monascus purpureus used to produce red yeast ric. Monascinol increases the efficacy of irradiation in PC-3 prostate cancer cells, enhancing DNA damage and endoplasmic reticulum stress. Monascinol induces autophagy and cell death primarily via inhibition of the Akt/mTOR signaling pathways. Monascinol is a moderately potent inhibitor of HMG-CoA reductase. Monascinol has potent anti-androgen activity.

References

- 1. Monascuspiloin enhances the radiation sensitivity of human prostate cancer cells by stimulating endoplasmic reticulum stress and inducing autophagy. Chiu H-W. et al. PLoS One 2012, 7:e40462.
- 2. HMG-CoA reductase inhibitors from monascus-fermented rice. Li X et al. J Chem. 2013, 872056:1.
- 3. Screening of azaphilone derivatives from Monascus pilosus-fermented rice (red yeast rice) and their evaluation as nonsteroidal androgen receptor antagonists. Wu M-D. et al. Nat Prod Commun. 2019, 14, 1.

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