

PRODUCT DATA SHEET

Equisetin Code: BIA-E1029

Pack sizes: 1.0 mg, 5.0 mg

Synonyms :

Specifications

CAS # : 57749-43-6 Molecular Formula : $C_{22}H_{31}NO_4$ Molecular Weight : 373.5

Source : Fusarium equiseti MST-FP193

Appearance : **Tan Lyophilisate**Purity : > 99% by HPLC

Long Term Storage : +4°C

Solubility : Soluble in ethyl acetate, ethanol, methanol, DMF or DMSO.

Application Notes

The tetramic acid, Equisetin, is produced by a number of species of *Fusarium*. Interest in equisetin emerged with reports of its inhibitory activity against human immunodeficiency virus type 1 (HIV-1) integrase *in vitro* that was mechanistically distinct from previously described inhibitors. Equisetin inhibits 3' end-processing and strand transfer as well as disintegration catalysed by either the full-length enzyme or the truncated integrase core.

References

- 1. Isolation and characterization of novel human immunodeficiency virus integrase inhibitors from fungal metabolites. Hazuda D. et al. *Antivir. Chem. Chemother.* **1999**, 10, 63.
- 2. Equisetin, an antibiotic from *Fusarium equiseti* NRRL 5537, identified as a derivative of N-methyl-2,4-pyrollidone. Vesonder R.F. *J. Antibiot.* **1979**, 32, 759.