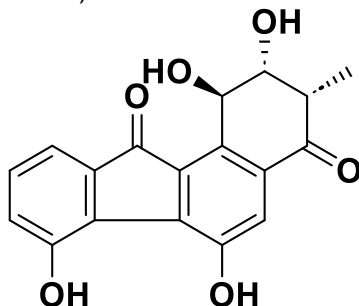


PRODUCT DATA SHEET

Fluostatin B

(Dipeptidyl Peptidase III (DPP-III) Inhibitor)



Synonyms: (1*R*,2*R*,3*S*)-2,3-Dihydro-1,2,6,7-tetrahydroxy-3-methyl-1*H*-benzo[*a*]fluorene-4,11-dione

Specifications

Code No.	: 14683
CAS#	: 158906-40-2
Molecular Formula	: C ₁₈ H ₁₄ O ₆
Molecular Weight	: 326.304
Source	: <i>Streptomyces</i> sp.
Supplied as	: Powder
Purity	: >98 % (HPLC)
Long Term Storage	: at -20 °C
Solubility	: Soluble in DMSO, partially soluble in EtOAc, Acetone Insoluble in H ₂ O

Application Notes

Fluostatin B is isolated from the fermentation broth of *Streptomyces* sp. TA-3391. It is a selective human placental dipeptidyl peptidase III (DPP-III) inhibitor (IC₅₀ value is 24 µg/mL).¹⁾ It exhibits no toxicity after intraperitoneal injection in mice at a dose of 100 mg/kg.¹⁾

References

- 1) Fluostatins A and B, new inhibitors of dipeptidyl peptidase III, produced by *Streptomyces* sp. TA-3391. I. Taxonomy of producing strain, production, isolation, physico-chemical properties and biological properties. Akiyama T, *et al. J Antibiot.* 1998 **51**(6) 553-559.
- 2) Fluostatins A and B, new inhibitors of dipeptidyl peptidase III, produced by *Streptomyces* sp. TA-3391. II. Structure determination. Akiyama T, *et al. J Antibiot.* 1998 **51**(6) 586-588.