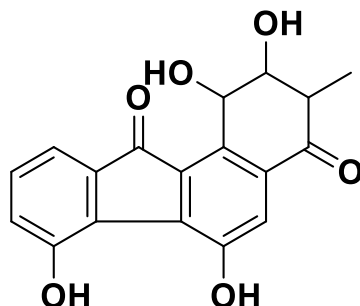


## PRODUCT DATA SHEET

Date: Jan 12, 2022

### Fluostatin B

(Dipeptidyl Peptidase III (DPP-III) Inhibitor)



### Specifications

Code No.	: 14683
CAS#	: 158906-40-2
Molecular Formula	: C <sub>18</sub> H <sub>14</sub> O <sub>6</sub>
Molecular Weight	: 326.304
Source	: <i>Streptomyces</i> sp. TA-3391
Supplied as	: Powder
Purity	: >90 % (HPLC)
Long Term Storage	: at -20 °C
Solubility	: Soluble in DMSO, partially soluble in EtOAc, Acetone Insoluble in H <sub>2</sub> 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 (IC<sub>50</sub> value is 24 µg/mL).<sup>1)</sup> It exhibits no toxicity after intraperitoneal injection in mice at a dose of 100 mg/kg.<sup>1)</sup>

### 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.