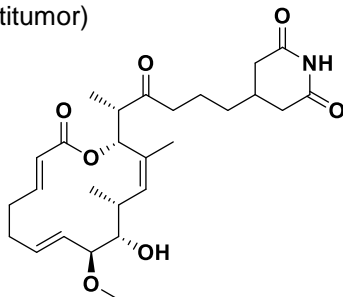


## PRODUCT DATA SHEET

### Migrastatin

(Tumor cell migration inhibitor, antitumor)



### Specifications

Code No	: 10708
CAS#	: 314245-65-3
Molecular Formula	: C <sub>27</sub> H <sub>39</sub> NO <sub>7</sub>
Molecular Weight	: 489.609
Source	: <i>Streptomyces</i> sp. MK929-43F1
Appearance	: Powder
Purity	: > 98% (HPLC)
Long Term Storage	: at - 20 °C
Solubility	: Soluble in MeOH, DMSO, DMF Insoluble in H <sub>2</sub> O

The chemical structure was confirmed by NMR and HRMS.

### Application Notes

Migrastatin inhibits cell migration of human esophageal cancer (EC17) and mouse melanoma (B16) cells <sup>1)</sup>. It was found to inhibit anchorage-independent growth of human small cell lung carcinoma (Ms-1) cells <sup>2)</sup>.

### References

- 1) Migrastatin, a new inhibitor of tumor cell migration from *Streptomyces* sp. MK929-43F1. Taxonomy, fermentation, isolation and biological activities  
Nakae, K., Yoshimoto, Y., Sawa, T., Homma, Y., Hamada, M., Takeuchi, T. & Imoto, M.  
*J. Antibiot.* **53**, 1130-1136 (2000).
- 2) Migrastatin, a novel 14-membered ring macrolide, inhibits anchorage-independent growth of human small cell lung carcinoma Ms-1 cells.  
Takemoto, Y., Nakae, K., Kawatani, M., Takahashi, Y., Naganawa, H. & Imoto, M.  
*J. Antibiot.* **54**, 1104-1107 (2001).
- 3) Absolute configuration of migrastatin, a novel 14-membered ring macrolide.  
Nakamura, H., Takahashi, Y., Naganawa, H., Nakae, K., Imoto, M., Shiro, M., Matsumura, K., Watanabe, H. & Kitahara, T.  
*J. Antibiot.* **55**, 442-444 (2002).