



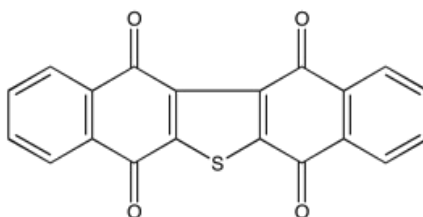
**Catalog # 10-1608**

**Seriniquinone**

22200-69-7

Dinaphthol[2,3-b:2',3'-d]thiophene-5,7,12,13-tetraone

Lot # S103136



A new natural product isolated from a marine bacterium of the genus *Serinicoccus*. Displays selective toxicity against a distinct set of cell lines (within the NCI 60 panel) predominantly melanoma. Upon cellular treatment, seriniquinone was found to localize in the endoplasmic reticulum. Within 3 hours cells underwent autophagy followed by death via a caspase-9 apoptotic pathway. The target of seriniquinone was identified as the small protein, dermcidin as determined using an immunoaffinity approach.<sup>1</sup>

1) Trzoss et al. (2014), *Seriniquinone, a selective anticancer agent, induces cell death by autophagocytosis, targeting the cancer-protective protein dermcidin*; Proc. Natl. Acad. Sci. USA, **111** 14687

#### **PHYSICAL DATA**

Molecular Weight:	344.34
Molecular Formula:	C <sub>20</sub> H <sub>8</sub> O <sub>4</sub> S
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	Soluble in DMSO (up to 15 mg/ml with warming) or in DMF (up to 15 mg/ml)
Physical Description:	Orange solid
Storage and Stability:	Store as supplied desiccated at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or DMF may be stored at -20°C for up to 3 months.

**Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.**

Focus Biomolecules LLC 400 Davis Drive, Suite 600 Plymouth Meeting PA 19462

[www.focusbiomolecules.com](http://www.focusbiomolecules.com)