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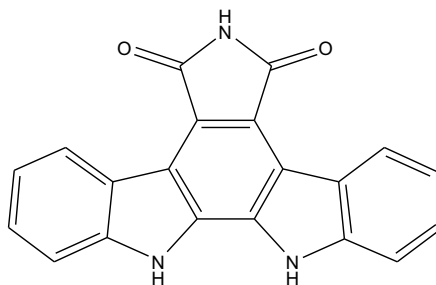
## CERTIFICATE OF ANALYSIS

Product name: **Arcyriaflavin A**

Cat. number: **VD-CCR-0036** CAS Number: **118458-54-1** Lot number: **VD90004423** [www.vdmbio.com](http://www.vdmbio.com)

### Personal protective equipment

- Lab coat.
- Safety glasses.



### Product Specification

<b>Formula:</b>	C <sub>20</sub> H <sub>11</sub> N <sub>3</sub> O <sub>2</sub>
<b>MW:</b>	325.32
<b>Purity:</b>	>=95%
<b>Appearance:</b>	Red solid
<b>Solubility:</b>	100 mM in DMSO
<b>Storage:</b>	-20°C. Protect from light.
<b>Synonyms:</b>	12,13-dihydro-5H-indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione.

### Product Description:

Potent inhibitor of cdk4/cyclin D1 (IC<sub>50</sub>=59 nM). Also active against CaM kinase II (IC<sub>50</sub>=25 nM) but displays selectivity over several other kinases in vitro (IC<sub>50</sub> values for inhibition of PKA and PKC are > 2 and > 100 μM respectively). Inhibits human cytomegalovirus (HCMV) replication in vitro (IC<sub>50</sub>=200 nM).

### Product References

- 1.Slater et al (1999) Indolocarbazoles: potent, selective inhibitors of human cytomegalovirus replication. Bioorg.Med.Chem. 7 1067. Zhu et al (2003).
- 2.Synthesis of quinolinyl/isoquinolinyl[a]pyrrolo [3,4-c] carbazoles as cyclin D1/CDK4 inhibitors. Bioorg.Med.Chem.Lett. 13 1231. Sanchez-Martinez et al (2003).
- 3.Aryl[a]pyrrolo[3,4-c]carbazoles as selective cyclin D1-CDK4 inhibitors. Bioorg.Med. Chem.Lett. 13 3835.

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