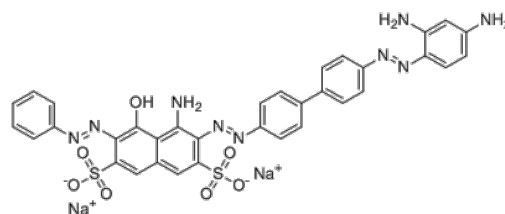


<b>Product Name</b>	: Ferristatin II
<b>Cat. No.</b>	: PC-61208
<b>CAS No.</b>	: 1937-37-7
<b>Molecular Formula</b>	: C <sub>34</sub> H <sub>25</sub> N <sub>9</sub> Na <sub>2</sub> O <sub>7</sub> S <sub>2</sub>
<b>Molecular Weight</b>	: 781.73
<b>Target</b>	: Other Targets
<b>Solubility</b>	: 10 mM in DMSO



## Biological Activity

Ferristatin II (NSC 8679, NSC8679, Chlorazol Black) is a small molecule **iron transport inhibitor** that promotes degradation of transferrin receptor-1 in vitro and in vivo, through a nystatin-sensitive lipid raft pathway.

Ferristatin II reduces intestinal (59)Fe uptake, lowers serum iron and transferrin saturation, with no effect on liver non-heme iron stores.

Ferristatin II decreases expression of **Smad** downstream targets Smad7 and Id1 and increases expression of Stat3 downstream targets, induces hepatic hepcidin expression in vivo and in vitro.

## References

Byrne SL, et al. *PLoS One*. 2013 Jul 23;8(7):e70199.

Yanatori I, et al. *Cell Biol Int*. 2015 Apr;39(4):427-34.

Alkhateeb AA, et al. *Am J Physiol Gastrointest Liver Physiol*. 2015 Jun 15;308(12):G1019-26.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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