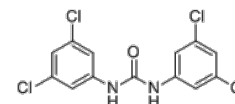


**Product Name** : COH-SR4  
**Cat. No.** : PC-36018  
**CAS No.** : 73439-19-7  
**Molecular Formula** : C<sub>13</sub>H<sub>8</sub>Cl<sub>4</sub>N<sub>2</sub>O  
**Molecular Weight** : 350.02  
**Target** : AMPK  
**Solubility** : 10 mM in DMSO



## Biological Activity

COH-SR4 (Mitochondria uncoupler SR4) is a bonafide uncoupler that induces energetic stress on cells, consequently leading to **AMPK activation** and mTOR inhibition without any effects on ERK/MEK MAPK signaling.

COH-SR4 prevents cell proliferation and promoted cell death in many human cancers including leukemia, lung cancer, melanoma, and hepatocarcinoma in vitro and in animal models.

COH-SR4 exhibits a strong inhibitory effect on the survival of melanoma cells (B16-F0 cell line IC<sub>50</sub>=5 uM, Hs600T cell line IC<sub>50</sub>=6 uM, and A2058 cell line IC<sub>50</sub>=11 uM), does not cause any significant cytotoxicity in normal human aortic vascular smooth muscle cells (HAVSMC).

COH-SR4 inhibits vemurafenib-resistant melanoma in vivo.

## References

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Figarola JL, et al. *Oncotarget.* 2018 Dec 11;9(97):36945-36965.

Singhal SS, et al. *Biochem Pharmacol.* 2013 Dec 15;86(12):1664-72.

Figarola JL, et al. *PLoS One.* 2013 Dec 20;8(12):e83801.

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

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