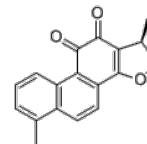


**Product Name** : Dihydratanshinone I  
**Cat. No.** : PC-60913  
**CAS No.** : 87205-99-0  
**Molecular Formula** : C<sub>18</sub>H<sub>14</sub>O<sub>3</sub>  
**Molecular Weight** : 278.3  
**Target** : Human Antigen R (HuR)  
**Solubility** : 10 mM in DMSO



## Biological Activity

Dihydratanshinone I (DHTS) is a natural product that prevents **HuR/RNA** complex formation with  $K_i$  of 3.74 nM. Dihydratanshinone I influences mRNA stability and translational efficiency of TNF in a HuR-dependent manner and also other functional readouts of its post-transcriptional control, such as the stability of selected pre-mRNAs in breast cancer cell lines.

Dihydratanshinone I disrupts HuR multimerization modules and reduces tumor cell survival and proliferation, potently inhibits xenograft tumor growth in a HuR-dependent model without systemic toxicity in vivo.

## References

- D'Agostino VG, et al. *Sci Rep.* 2015 Nov 10;5:16478.  
Park JW, et al. *Arch Pharm Res.* 2008 Jan;31(1):47-53.  
Filippova N, et al. *J Biol Chem.* 2017 Oct 13;292(41):16999-17010.  
Lal P, et al. *Nucleic Acids Res.* 2017 Sep 19;45(16):9514-9527.

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

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