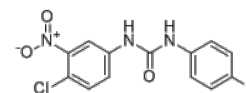


**Product Name** : DTHIB  
**Cat. No.** : PC-72068  
**CAS No.** : 897326-30-6  
**Molecular Formula** : C<sub>13</sub>H<sub>9</sub>ClFN<sub>3</sub>O<sub>3</sub>  
**Molecular Weight** : 309.681  
**Target** : Heat Shock Protein (HSP)  
**Solubility** :



### Biological Activity

DTHIB (Direct Targeted HSF1 Inhibitor) is a specific small molecule HSF1 inhibitor with K<sub>d</sub> of 160 nM for DTHIB binding to the HSF1 DNA binding domain (DBD).

HSF1 is highly expressed in human prostate cancer and is inhibited by DTHIB, suppresses AR activity and signaling.

DTHIB inhibits human prostate cancer cell proliferation (PC-3, EC<sub>50</sub>=3 μM).

DTHIB inhibits tumor growth in animal models of therapy-resistant prostate cancer, with no weight loss or organ damage.

### References

Bushu Dong, et al. Sci Transl Med. 2020 Dec 16;12(574):eabb5647.

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

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