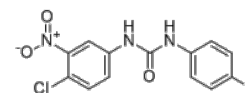


Product Name : DTHIB
Cat. No. : PC-72068
CAS No. : 897326-30-6
Molecular Formula : C₁₃H₉ClFN₃O₃
Molecular Weight : 309.681
Target : Heat Shock Protein (HSP)
Solubility : 10 mM in DMSO



Biological Activity

DTHIB (Direct Targeted HSF1 Inhibitor, SISU-102) is a specific small molecule **HSF1** inhibitor with K_d 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, EC₅₀=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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