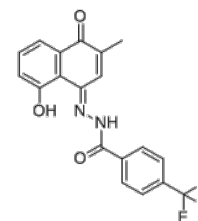


**Product Name** : PLTFBH  
**Cat. No.** : PC-49317  
**CAS No.** :  
**Molecular Formula** : C<sub>19</sub>H<sub>13</sub>F<sub>3</sub>N<sub>2</sub>O<sub>3</sub>  
**Molecular Weight** : 374.319  
**Target** : Heat Shock Protein (HSP)  
**Solubility** : 10 mM in DMSO



## Biological Activity

PLTFBH is a cell-active small molecule inhibitor of **DNAJA1**, binds to and reduces protein levels of DNAJA1 and several other HSP40/J-domain proteins (JDPs), specifically reduces conformational mutp53 levels similar to PLIHZ.

PLTFBH reduced the levels of multiple conformational mutp53 better than other analogs with minimal impact on wtp53 and DNA contact mutp53.

PLTFBH inhibits migratory potential of cancer cells in a manner dependent on DNAJA1 and conformational mutp53.

PLTFBH inhibited the filopodia formation induced by wt DNAJA1, with minimal impact on the filopodia formation induced by Y7A and Y8A DNAJA1 mutants.

DNAJA1, a member of heat shock protein 40 (HSP40) family, also known as J-domain proteins (JDPs), can stabilize mainly misfolded or conformational type of mutp53.

## References

Alalem M, et al. *Cancers (Basel)*. 2022 Aug 29;14(17):4187.

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

E-mail: tech@probechem.com