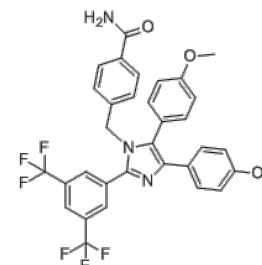


Product Name : Apoptozole
Cat. No. : PC-73133
CAS No. : 1054543-47-3
Molecular Formula : C₃₃H₂₅F₆N₃O₃
Molecular Weight : 625.571
Target : Heat Shock Protein (HSP)
Solubility : 10 mM in DMSO



Biological Activity

Apoptozole inhibits the ATPase activity of **HSP70** and **Hsc70** by binding to the ATPase domain, inducing an array of apoptotic phenotypes in cancer cells.

Apoptozole binds HSP70 but not other types of heat shock proteins including HSP40, HSP60, and HSP90.

Apoptozole induces cancer cell death via caspase-dependent apoptosis by disrupting the interaction of HSP70 with APAF-1.

Apoptozole treatment retards tumor growth in a xenograft mouse model without affecting mouse viability.

Apoptozole also enhances immune responses to administered antigens.

Apoptozole also has high cellular potency to promote membrane trafficking of mutant CFTR and its chloride channel activity in cystic fibrosis cells.

References

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Baek KH, et al. *Sci Rep.* 2015 Dec 3;5:17642.

Ko SK, et al. *Chem Biol.* 2015 Mar 19;22(3):391-403.

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

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