# Heat shock protein 70 (HSP70) inhibitor JG-345

**Catalogue number:** 157978
**Sub-type:** Inhibitor
**Images:**

## Contributor

**Inventor:** Jason Gestwicki
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**Images:**

## Tool details

***FOR RESEARCH USE ONLY**

**Name:** Heat shock protein 70 (HSP70) inhibitor JG-345

**Alternate name:**



**Class:**
**Conjugate:**
**Description:** The benzothiazole rhodacyanines, MKT-077 analogue, JG-345 was designed as a small molecule with greater stability and potency to inhibit members of the heat shock protein 70 (Hsp70) family of molecular chaperones. Inhibiting Hsp70 chaperones induce apoptosis in breast cancer cell lines. This inhibitor would be useful in the study of Hsp70 chaperones and oncology research.
**Purpose:** Inhibitor
**Parental cell:**
**Organism:**
**Tissue:**
**Model:**
**Gender:**
**Isotype:**
**Reactivity:**
**Selectivity:**
**Host:**
**Immunogen:**
**Immunogen UNIPROT ID:**
**Sequence:**
**Growth properties:**
**Production details:**
**Formulation:**
**Recommended controls:**
**Bacterial resistance:**

**Selectable markers:**
**Additional notes:**

## Target details

**Target:**

**Target alternate names:**

**Target background:**

**Molecular weight:**

**Ic50:**

## Applications

**Application:**
**Application notes:**



## Handling

**Format:**
**Concentration:**
**Passage number:**
**Growth medium:**
**Temperature:**
**Atmosphere:**
**Volume:**
**Storage medium:**
**Storage buffer:**
**Storage conditions:**
**Shipping conditions:** Dry Ice

## Related tools

**Related tools:** Heat shock protein 70 (HSP70) inhibitor JG-231 ; Heat shock protein 70 (HSP70) inhibitor JG-98

## References

**References:** Shao et al. 2020. Bioorg Med Chem Lett. 30(5):126954. PMID: 31952963. ; Taguwa et al.

2019. Cell Rep. 26(4):906-920.e3. PMID: 30673613. ; Rinaldi et al. 2018. ACS Chem Biol. 13(11):3142-3152. PMID: 30372610. ; Shao et al. 2018. J Med Chem. 61(14):6163-6177. PMID: 29953808. ; Young et al. 2016. Cell Chem Biol. 23(8):992-1001. PMID: 27499529. ; Li et al. 2013. ACS Med Chem Lett. 4(11):. PMID: 24312699. ; Rousaki et al. 2011. J Mol Biol. 411(3):614-32. PMID: 21708173.