

Heat shock protein 70 (HSP70) inhibitor JG-231

Catalogue number: 157977

Sub-type: Inhibitor

Images:

Contributor

Inventor: Jason Gestwicki

Institute: University of Michigan

Images:

Tool details

***FOR RESEARCH USE ONLY**

Name: Heat shock protein 70 (HSP70) inhibitor JG-231

Alternate name:

Class:

Conjugate:

Description: The benzothiazole rhodacyanines, MKT-077 analogue, JG-231 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 and xenograft model. 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-98 ; Heat shock protein 70 (HSP70) inhibitor JG-345

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.

CancerTools.org