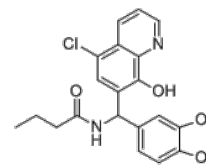


**Product Name** : YUM70  
**Cat. No.** : PC-72448  
**CAS No.** : 423145-35-1  
**Molecular Formula** : C<sub>21</sub>H<sub>19</sub>ClN<sub>2</sub>O<sub>4</sub>  
**Molecular Weight** : 398.843  
**Target** : Heat Shock Protein (HSP)  
**Solubility** : 10 mM in DMSO



### Biological Activity

YUM70 (YUM-70) is a derivative of 8-hydroxyquinoline targeting **GRP78**, and cytotoxic to pancreatic cancer cell lines (MIA PaCa-2 cell IC<sub>50</sub>=2.5 uM).

YUM70 dose-dependently decreased PANC-1 and UM59 cell proliferation in 3D-culture systems (IC<sub>50</sub><10 uM).

YUM70 upregulates UPR target proteins and induces ER stress and apoptosis via phosphorylation of eIF2α.

YUM70 binds to full-length GRP78 and causes a positive shift in the melting temperature (T<sub>m</sub>) of GRP78 in a dose-dependent manner.

YUM70 inhibits GRP78 ATPase activity of the full-length protein with IC<sub>50</sub> of 1.5 uM.

YUM70 can up-regulate GRP78 transcription and protein levels.

YUM70 reduces tumor growth in a MIA PaCa-2 xenograft model.

### References

Soma Samanta, et al. **Cancer Res.** 2021 Apr 1;81(7):1883-1895.

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

E-mail: tech@probechem.com