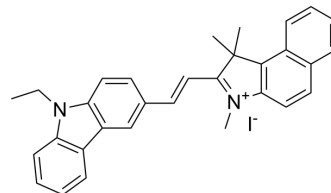


BKN-1

Cat. No.:	HY-162084
CAS No.:	1607831-82-2
Molecular Formula:	C ₃₁ H ₂₉ IN ₂
Molecular Weight:	556.48
Target:	Autophagy; Apoptosis
Pathway:	Autophagy; Apoptosis
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

BKN-1 is a bifunctional ligand that can not only track the formation of mtG4s (G-quadruplexes, four-stranded DNA structures containing Hoogsteen bonds) through far-red emission, but can also induce mitochondrial dysfunction. BKN-1 has anti-tumor activity and may cause mtDNA loss, damage mitochondrial integrity, reduce ATP levels, and trigger ROS imbalance, leading to apoptosis and autophagy^[1].

REFERENCES

[1]. Wang Z, et al. Discovery of a far-red carbazole-benzoindolium fluorescent ligand that selectively targets mitochondrial DNA and suppresses breast cancer growth. *Eur J Med Chem.* 2024 Jan 15;264:116046.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA