



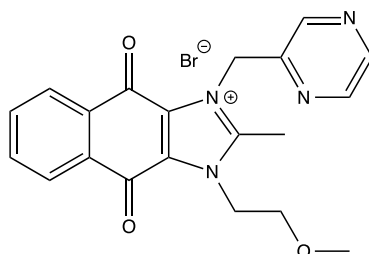
Catalog # 10-1473

YM-155

CAS# 781661-94-7

1-(2-methoxyethyl)-2-methyl-4,9-dioxo-3-(pyrazin-2-ylmethyl)-4,9-dihydro-1H-naphtho[2,3-d]imidazol-3-ium bromide;
Sepantronium bromide

Lot # X106138



A novel small molecule survivin suppressant. YM-155 suppresses expression of survivin (a member of the IAP family) and induced apoptosis in human tumor cell lines at 10 nmol/L with little effect on other IAP or Bcl-2 family members.¹ Overcomes erlotinib resistance in EGFR mutation-positive non-small cell lung cancer.² Induces DNA damage.³ Induces an autophagy-dependent cell death in adenoid cystic carcinoma cells.⁴

- 1) Nakahara *et al.* (2007), *YM155, a novel small-molecule surviving suppressant, induces regression of established human hormone-refractory prostate tumor xenografts*; *Cancer Res.* **67** 8014
- 2) Okamoto *et al.* (2012), *Overcoming erlotinib resistance in EGFR mutation-positive non-small cell lung cancer cells by targeting survivin*; *Mol.Cancer Ther.* **11** 204
- 3) Glaros *et al.* (2012), *The "survivin suppressants" NSC 80467 and YM 155 induce a DNA damage response*; *Cancer Chemother.Pharmacol.* **70** 207 Wang *et al.* (2014), *Induction of autophagy-dependent cell death by the survivin suppressant YM155 in salivary adenoid cystic carcinoma*; *Apoptosis* **19** 748

PHYSICAL DATA

Molecular Weight:	443.30
Molecular Formula:	C ₂₀ H ₁₉ BrN ₄ O ₃
Purity:	>98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/mL)
Physical Description:	Yellow to tan solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.