

**Product Name:** YM 155

**Catalog No.:** 6491

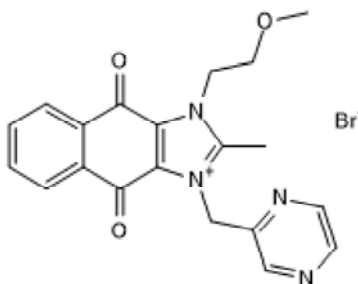
**Batch No.:** 1

CAS Number: 781661-94-7

IUPAC Name: 4,9-Dihydro-1-(2-methoxyethyl)-2-methyl-4,9-dioxo-3-(2-pyrazinylmethyl)-1*H*-naphth[2,3-*d*]imidazolium bromide

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>20</sub>H<sub>19</sub>BrN<sub>4</sub>O<sub>3</sub>  
**Batch Molecular Weight:** 443.29  
**Physical Appearance:** Yellow solid  
**Solubility:** water to 100 mM  
DMSO to 20 mM  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.0% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	54.19	4.32	12.64
Found	53.82	4.3	12.61

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**Description:**

Survivin suppressor. Down-regulates survivin expression and sensitizes human NSCLC cell lines to radiation. Enhances radiation-induced tumor regression in nude mice bearing NSCLC xenografts. Also induces apoptosis in TRAIL-resistant glioma cells in vitro.

**Physical and Chemical Properties:**

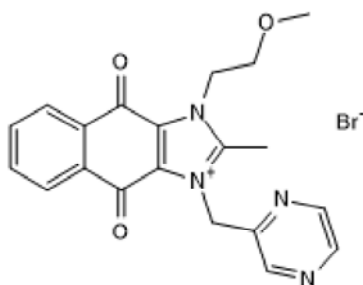
Batch Molecular Formula: C<sub>20</sub>H<sub>19</sub>BrN<sub>4</sub>O<sub>3</sub>

Batch Molecular Weight: 443.29

Physical Appearance: Yellow solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

water to 100 mM

DMSO to 20 mM

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

**SOLIDS:** Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

**SOLUTIONS:** We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Premkumar et al** (2013) Survivin inhibitor YM-155 sensitizes tumor necrosis factor- related apoptosis-inducing ligand-resistant glioma cells to apoptosis through Mcl-1 downregulation and by engaging the mitochondrial death pathway. *J.Pharmacol.Exp.Ther.* **346** 201. PMID: 23740602.

**Iwasa et al** (2008) Radiosensitizing effect of YM155, a novel small-molecule survivin suppressant, in non-small cell lung cancer cell lines. *Clin.Cancer Res.* **14** 6496. PMID: 18927289.

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