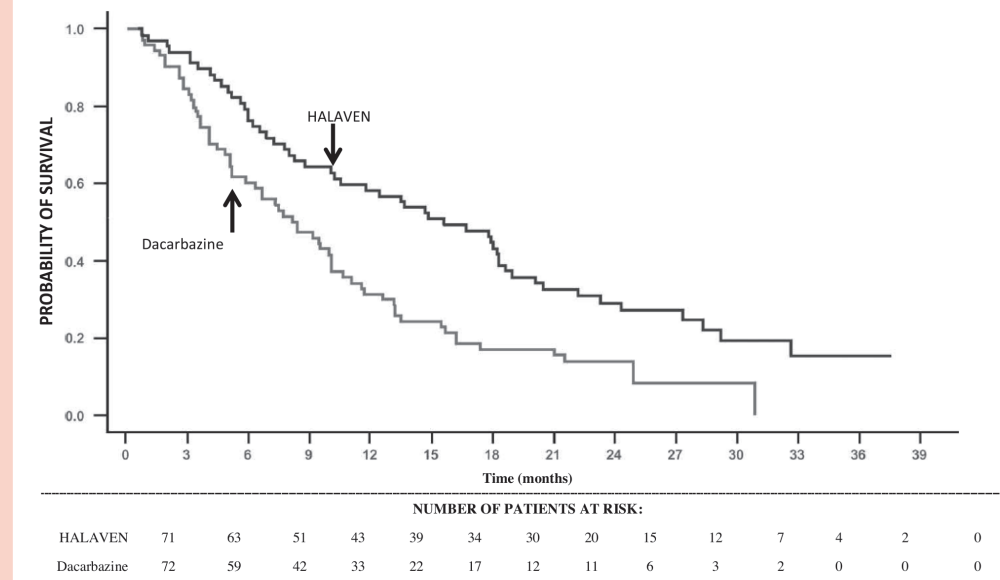
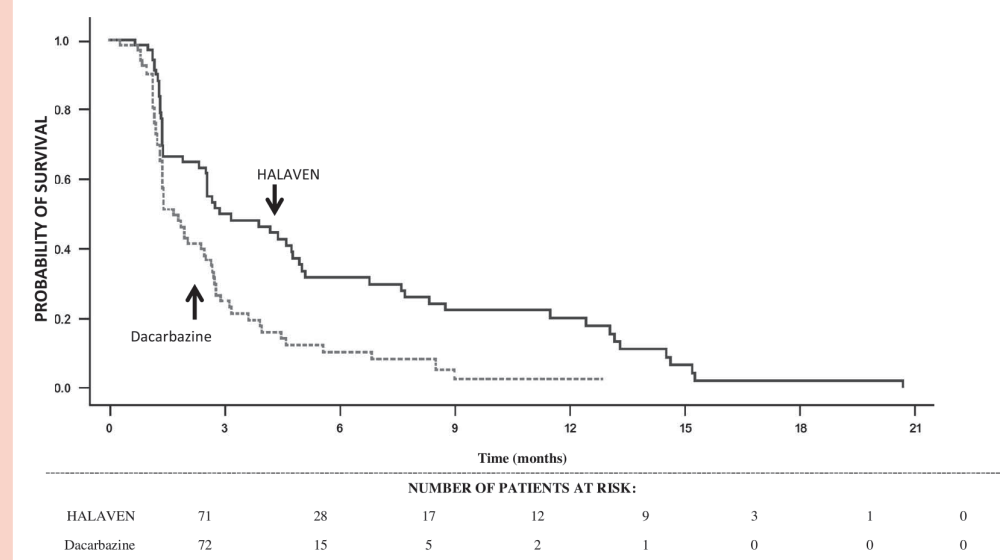




### Study 309 - Overall Survival in the Liposarcoma Subgroup



### Study 309 - Progression Free Survival in the Liposarcoma Subgroup



### 5.2 Pharmacokinetic properties

#### Distribution

The pharmacokinetics of eribulin are characterized by a rapid distribution phase followed by a prolonged elimination phase, with a mean terminal half-life of approximately 40 hr. It has a large volume of distribution (range of means 43 to 114 L/m<sup>2</sup>) and low clearance (range of means 1.16 to 2.42 L/hr/m<sup>2</sup>).

Eribulin is weakly bound to plasma proteins. The plasma protein binding of eribulin (100-1000 ng/mL) ranged from 49% to 65% in human plasma.

#### Biotransformation

Cytochrome P450 3A4 (CYP3A4) is the major enzyme responsible for the human hepatic metabolism of eribulin. Eribulin (0.05 to 5µM) did not show induction potential for CYP1A and CYP3A in human primary hepatocytes. No significant inhibition of CYP1A2, CYP2C9, CYP2C19, CYP2D6, or CYP2E1 was detected with eribulin at concentrations up to 5 µM in pooled human liver microsomes. Therefore, at the current recommended human dose eribulin is unlikely to affect plasma levels of drugs that are substrates of CYP enzymes.

Unchanged eribulin was the major circulating species in plasma following administration of <sup>14</sup>C-eribulin to patients. Metabolite concentrations represented <0.6% of parent compound, confirming that there are no major human metabolites of eribulin.

#### Elimination

Eribulin is eliminated primarily in faeces. After administration of <sup>14</sup>C-eribulin to patients, approximately 82% of the dose was eliminated in faeces and 9% in urine indicating that renal clearance is not a significant route of eribulin elimination. Based on the population PK analysis, renal impairment is not expected to significantly influence eribulin exposure.

Unchanged eribulin represented most of the total radioactivity in faeces and urine.

#### Hepatic impairment

A study evaluated the PK of eribulin in patients with mild (Child-Pugh A; n=7) and moderate (Child-Pugh B; n=4) hepatic impairment. Compared to patients with normal hepatic function (n=6), eribulin exposure increased 1.8-fold and 2.5-fold in patients with mild and moderate hepatic impairment, respectively. Administration of HALAVEN® at a dose of 1.1 mg/m<sup>2</sup> to patients with mild hepatic impairment and 0.7 mg/m<sup>2</sup> to patients with moderate hepatic impairment resulted in similar exposure to eribulin as a dose of 1.4 mg/m<sup>2</sup> to patients with normal hepatic function. HALAVEN® was not studied in patients with severe hepatic impairment (Child-Pugh C).

#### Renal impairment

Increased eribulin exposure was seen in some patients with moderately or severely impaired renal function, with high between-subject variability. The pharmacokinetics of eribulin were evaluated in a Phase I study in patients with normal renal function (Creatinine clearance: ≥ 80 ml/min; n=6), moderate (30-50 ml/min; n=7) or severe (15-<30 ml/min; n=6) renal impairment. Creatinine clearance was estimated with the Cockcroft-Gault formula. A 1.5-fold (90% CI: 0.9-2.5) higher dose-normalised AUC<sub>0-∞</sub> was observed in patients with moderate and severe renal impairment. See section 4.2 for treatment recommendations.

### 5.3 Preclinical safety data

The nonclinical safety of eribulin mesylate has been evaluated in the following studies: safety pharmacology, repeated toxicity including chronic toxicity, genotoxicity, and reproductive toxicity studies. No significant adverse effects were observed in any safety pharmacology studies except for transient decreases in blood pressure and heart rate in conscious dogs. Results from the toxicology studies showed that the target organ of toxicity is limited to the bone marrow, skeletal muscle, peripheral nerves, gastrointestinal system, and testes. Most of these observed toxic effects were partially or completely reversible by 2 to 4 weeks of recovery. In addition, eribulin mesylate, like other cytotoxic agents, is genotoxic and teratogenic.

## 6. PHARMACEUTICAL PARTICULARS

### 6.1 List of excipients

Ethanol

Water for Injections

### 6.2 Incompatibilities

In the absence of compatibility studies, this medicinal product must not be mixed with other medicinal products.

HALAVEN® solution for injection should not be diluted in glucose 5% infusion solution.

### 6.3 Shelf life

The drug should not be used after the expiry date "EXP" printed on the pack.

From a microbiological point of view HALAVEN® should be used immediately. The product is not intended to be stored after opening or after dilution unless this has taken place under controlled and validated aseptic conditions. If not used immediately, in-use storage times and conditions are the responsibility of the user.

If not used immediately HALAVEN® as the undiluted solution in a syringe should not normally be stored longer than 4 hours at 25°C and ambient lighting, or 24 hours at 2°C - 8°C. Diluted solutions of HALAVEN® (0.02 mg/ml to 0.2 mg/ml in sterile sodium chloride 9 mg/ml (0.9%) solution for injection should not be stored longer than 24 hours at 2-8 °C, unless dilution has taken place in controlled and validated aseptic conditions.

### 6.4 Special precautions for storage

To be stored at room temperature (15°C - 25°C).

For storage conditions after first opening or dilution of the medicinal product , see section 6.3.

### 6.5 Nature and contents of container

5 ml type I glass vial, with butyl rubber stopper and flip-off aluminium over seal, containing 2 ml of solution (0.5 mg/ml).

Each carton contains 1 vial.

### 6.6 Special precautions for disposal and other handling

Any unused product or waste material should be disposed of in accordance with local requirements.

HALAVEN® is a cytotoxic anticancer medicinal product and, as with other toxic compounds, caution should be exercised in handling HALAVEN®. The use of gloves, goggles, and protective clothing is recommended. If the solution contacts the skin, the skin should be washed immediately and thoroughly with soap and water. If it contacts mucous membranes, the membranes should be flushed thoroughly with water. HALAVEN® should only be prepared and administered by personnel appropriately trained in handling of cytotoxic agents. Pregnant staff should not handle HALAVEN®.

Using aseptic technique HALAVEN® can be diluted up to 100 ml with sodium chloride 9 mg/ml (0.9%) solution for injection. Following administration, it is recommended that the intravenous line be flushed with sodium chloride 9 mg/ml (0.9%) solution for injection to ensure administration of the complete dose. It must not be mixed with other medicinal products and should not be diluted in glucose 5% infusion solution.

## 7. PRODUCT REGISTRANT

Eisai (Singapore) Pte Ltd  
152 Beach Road  
#15-07/08 Gateway East  
Singapore 189721

## 8. DATE OF REVISION OF PACKAGE INSERT

2<sup>nd</sup> May 2023



16 East Park Road | Leicester | LE5 4QA | UK

**APPROVAL SIGNATURE**

---

**DATE**

---

**Warning!**  
We cannot accept responsibility for any errors in this proof after approval. Whilst we take extreme care at all times to ensure accuracy to our client's brief, the final responsibility must be taken by our client.

**IF YOU SIGN THIS PROOF YOU ARE SIGNIFYING FULL APPROVAL OF DESIGN AND TEXT.**

Item No.	2006071
EML	EML-HAL-23000010
Description	Halaven
Strength	ALL
Change Description	Address Change
Component Type	Leaflet
Dimensions	395 x 696 mm
Keyline Reference	LEAF020 V 07
Varnish	
Market(s)	NON EU: SINGAPORE
Language(s)	ENGLISH
Barcode Type	:
Pharmacode	4987
Proof By	EBR
Proof Number	1
Main Body Font Size	9pt
Printed Colours	1
Date	23/05/2023

PRINTING COLOURS	TECHNICAL COLOURS
● Black	● Back Panel (Tech)
	● Front Panel (Tech)
	● Keyline (Non-Printing)
	● Tamper Evident Label (Tech)
	● Text Free Area (Tech)
	● Cirrus_Info_Box