

## Valrubicin PRODUCT DATA SHEET

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Product Name: Valrubicin

Product Number: V026

**CAS Number:** 56124-62-0

Molecular Formula:  $C_{34}H_{36}F_3NO_{13}$ 

Molecular Weight: 723.65
Form: Powder

**Appearance:** Orange to orange red crystalline powder

**Source:** Synthetic

Storage Conditions: ≤30°C (avoid light)

**Description:** Valrubicin is a semisynthetic derivative of the antineoplastic anthracycline

antibiotic doxorubicin It is used to treat bladder cancer

Mechanism of Action: Valrubicin is converted into N-trifluoroacetyladriamycin, which interacts with

topoisomerase II, an enzyme that relaxes DNA supercoils. DNA replication and repair is inhibited, which prevents RNA synthesis and protein production, resulting in cell cycle arrest in phase G2. Valrubicin also accumulates in the

cytoplasm where it inhibits protein kinase C.

References: Onrust CV and Lamb HM (1999). Valrubicin. Drugs Aging 15:69-75 Sabnis N

et al (2012) Enhanced solubility and functionality of valrubicin (AD-32) against

cancer cells upon encapsulation into biocompatible nanoparticles. Int J

Nanomedicine 7:975-983

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