Overview

Product name: Vinorelbine tartrate (Navelbine), mitotic microtubule antagonist

Description: Selective mitotic microtubule antagonist

Biological description: Selective mitotic microtubule antagonist. Inhibits multiple human tumor cell lines (IC$_{50} =$ 1.25 nM in HeLa cells). Blocks metaphase/anaphase transition (IC$_{50} =$ 3.8 nM). Active in vivo. Orally active. Shows antimitotic and antitumor activity.

Purity: > 98%

CAS Number: 125317-39-7

Chemical structure:

![Chemical structure image]

Properties

Chemical name: 3',4'-Didehydro-4'-deoxy-3'-norvincaleukoblastine ditartrate

Molecular weight: 1079.11

Molecular formula: $C_{45}H_{54}N_{4}O_{8}$.2$C_{4}H_{8}O_{6}$

PubChem identifier: 607791

Storage instructions: Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.

Solubility overview: Soluble in water to 100 mM and in DMSO to 100 mM

Handling: Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our frequently asked questions (FAQ) page for more details.
SMILES
CCC1=CC2CC(C3=C(CN(C2)C1)C4=CC=C4N3(C5=C(C6=C5=C(C=C9)(C=C8N6C)(C(=O)OC)OC(=O)C)CC)OC(=O)C)CC)OC(=O)O.C(C(C(=O)O)O)(C(=O)O)O

Source
Synthetic

Please note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE, NOT FOR USE IN HUMANS”

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