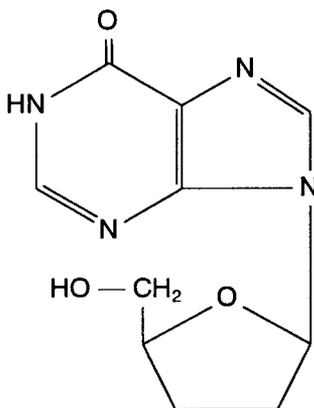


DIDEOXYINOSINE

NSC - 612049



Chemical Name: 2',3'- Dideoxyinosine

Other Names: DDI; Didanosine (USAN/INN)

CAS Registry Number: 69655-05-6

Molecular Formula: C₁₀H₁₂N₄O₃

M.W.: 236.2

Approximate Solubility:

(mg/mL)

| | |
|---|-----------|
| H ₂ O | 20 |
| 0.1 N KH ₂ PO ₄ (pH4) | 19 |
| 0.1 N KH ₂ PO ₄ (pH9) | 23 |
| MeOH | 5 |
| EtOH | 2.5 |
| DMSO | 43 |
| CHCl ₃ | insoluble |

Stability:**Bulk:**

The compound is stable for at least 6 weeks at room temperature and 45 °C under both light and dark conditions.

Solution:

The compound is stable as a 0.5 mg/mL aqueous solution for more than 24 hrs under normal laboratory conditions.

Ultraviolet Absorption:

| λ_{\max} | ϵ |
|------------------|-----------------|
| 203 \pm 2nm | 18,400 - 19,970 |
| 249 \pm 2nm | 12,200 - 12,500 |

High Performance Liquid Chromatography:

| | |
|----------------------|--|
| Column: | IBM ODS, 250 x 4.6 mm i.d. |
| Mobile Phase: | 10% MeOH/0.1N KH ₂ PO ₄ , pH = 6.8 |
| Flow Rate: | 1.3 mL/min |

Detection: UV at 254 nm

Sample Preparation: 1 mg DDI dissolved in 2 mL water

Retention Volume: 14.7 mL

Optical Rotation:

(c = 1, H₂O)

$$[\alpha]_D^{20} = -25.7 \pm 2^\circ$$