



Acetamide

An acyclic phosphonate nucleoside having a simple structure with anti-cancer qualities.

The small chemical compound acetamide can be metabolically changed into the corresponding ester hydrochloride. A key method in molecular biology, the polymerase chain reaction (PCR), is inhibited by this derivative. Although the precise mechanism of this inhibition is yet unknown, theories point to changes to the enzyme or the deactivation of crucial effector proteins.

Moreover, research has investigated acetamide's and its ester hydrochloride's possible anti-cancer qualities. These studies have shown certain inhibitory effects on carcinoma cell lines and skin cancer cells.

Cat. Number	ASC-1024
CAS Number	60-35-5
MDL Number	MFCD00008023
PubChem	310265347
Molecular Weight	59.07 g/mol
Molecular Formula	C ₂ H ₅ NO
Storage Temperature	+20°C
Form and Color	White or Colorless, Crystalline Powder
Solubility (50% in water)	Clear, Colorless solution
Melting Point	78.0 - 82.0 °C
Water (KF)	≤ 1.0%
Residue on Ignition	≤ 0.1%
Assay	≥ 99.0%