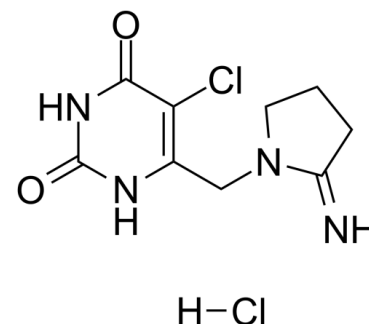


Data Sheet

Product Name:	Tipiracil (hydrochloride)
Cat. No.:	CS-1637
CAS No.:	183204-72-0
Molecular Formula:	C ₉ H ₁₂ Cl ₂ N ₄ O ₂
Molecular Weight:	279.12
Target:	Nucleoside Antimetabolite/Analog
Pathway:	Cell Cycle/DNA Damage
Solubility:	H ₂ O : 50 mg/mL (179.13 mM; Need ultrasonic); DMF : < 1 mg/mL (insoluble); DMSO : < 1 mg/mL (insoluble or slightly soluble)



BIOLOGICAL ACTIVITY:

Tipiracil (hydrochloride) is a thymidine phosphorylase inhibitor (TPI), used for cancer research. **In Vitro:** Tipiracil has antiangiogenic effect, and inhibits proliferation of endothelial cells^[1]. Tipiracil is a potent inhibitor of thymidine phosphorylase, which is the enzyme that degrades FTD^[2]. **In Vivo:**

References:

[1]. Peters GJ, et al. TAS-102: more than an antimetabolite. *Lancet Oncol.* 2012 Dec;13(12):e518-9.

[2]. Yoshino T, et al. TAS-102 monotherapy for pretreated metastatic colorectal cancer: a double-blind, randomised, placebo-controlled phase 2 trial. *Lancet Oncol.* 2012 Oct;13(10):993-1001.

CAIndexNames:

2,4(1H,3H)-Pyrimidinedione, 5-chloro-6-[(2-imino-1-pyrrolidinyl)methyl]-, hydrochloride (1:1)

SMILES:

[H]Cl.O=C1C(Cl)=C(CN2C(CCC2)=N)NC(N1)=O

Caution: Product has not been fully validated for medical applications. For research use only.

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