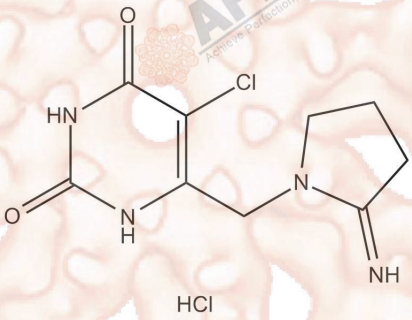
Product Data Sheet

Tipiracil hydrochloride

Cat. No.:	A3875
CAS No.:	183204-72-0
Formula:	C9H12Cl2N4O2
M.Wt:	279.12
Synonyms:	Tipiracil
Target:	Others
Pathway:	Thymidine phosphorylase
Storage:	Store at -20°C



Solvent & Solubility

insoluble in DMSO,insoluble in EtOH, ≥13.25 mg/mL in H2O

In Vitro — Preparing Stock Solutions

Concentration \ Mass (Solvent)	1mg	5mg	10mg
1 mM	3.5827 mL	17.9134 mL	35.8269 mL
5 mM	0.7165 mL	3.5827 mL	7.1654 mL
10 mM	0.3583 mL	1.7913 mL	3.5827 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	Thymidine phosphorylase inhibitor
IC_{50} & Target	

In Vitro

Cell Viability Assay	
Preparation method：	

In Vivo

Animal experiment	
Animal models:	Xenograft-bearing nude mouse models of colorectal and gastric cancers
Dosage form:	150 mg/kg/day (combination of Trifluridine and Tipiracil Hydrochloride); p.o.; b.i.d., for 14 days
Applications:	The tumor growth-inhibitory activity and RTV5 in mice administered TAS-102

	(consisting of Trifluridine and Tipiracil Hydrochloride) with Oxaliplatin were significantly superior to those associated with either monotherapy in mice with colorectal (HCT 116 and SW-48 cells) and gastric (SC-2 and MKN74 cells) cancers. In vivo, TAS-102 alone was effective in MKN74/5FU cells, and its anti-tumor activity was substantially enhanced in combination with Oxaliplatin. No significant decrease in body weight or toxicity was observed compared to either monotherapy.
Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

[1]. Tsukihara H, Nakagawa F, Sakamoto K et al. Efficacy of combination chemotherapy using a novel oral chemotherapeutic agent, TAS-102, together with bevacizumab, cetuximab, or panitumumab on human colorectal cancer xenografts. Oncol Rep. 2015 May;33(5):2135-42.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

APExBIO Technology
www.apexbt.com
7505 Fannin street, Suite 410, Houston, TX 77054.