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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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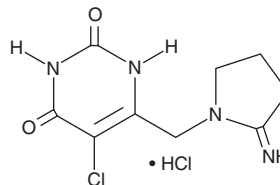
PRODUCT INFORMATION



Tipiracil (hydrochloride)

Item No. 23319

CAS Registry No.: 183204-72-0
Formal Name: 5-chloro-6-[(2-imino-1-pyrrolidinyl)methyl]-2,4(1H,3H)-pyrimidinedione, monohydrochloride
Synonym: TPI
MF: $C_9H_{11}ClN_4O_2 \cdot HCl$
FW: 279.1
Purity: $\geq 98\%$
UV/Vis.: λ_{max} : 205, 278 nm
Supplied as: A crystalline solid
Storage: $-20^\circ C$
Stability: ≥ 2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Tipiracil (TPI) (hydrochloride) is supplied as a crystalline solid. Aqueous solutions of TPI (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of TPI (hydrochloride) in PBS (pH 7.2) is approximately 2 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

TPI is a potent and competitive inhibitor of thymidine phosphorylase (TPase) with an IC_{50} value of 35 nM for human placental TPase.¹ It is selective for TPase over other pyrimidine-metabolizing enzymes (IC_{50} s = >1 mM for UPase, OPRTase, TK, and DPDase). TPI inhibits the phosphorolysis and degradation of trifluorothymidine (Item No. 21366), a cytotoxic nucleoside, in human breast and colon carcinoma tumor samples. Oral administration of TPI (12.5-50 mg/kg) enhances the anti-tumor activity of trifluorothymidine in a mouse AZ-521 stomach cancer xenograft model. Formulations containing TPI have been used for the treatment of metastatic colorectal cancer.²

References

1. Fukushima, M., Suzuki, N., Emura, T., *et al.* Structure and activity of specific inhibitors of thymidine phosphorylase to potentiate the function of antitumor 2'-deoxyribonucleosides. *Biochem. Pharmacol.* **59(10)**, 1227-1236 (2000).
2. Sunakawa, Y., Izawa, N., Mizukami, T., *et al.* Profile of trifluridine/tipiracil hydrochloride in the treatment of metastatic colorectal cancer: Efficacy, safety, and place in therapy. *Onco Targets Ther.* **10**, 4599-4605 (2017).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

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