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DATASHEET

Gemcitabine hydrochloride

Product overview

Name	Gemcitabine hydrochloride
Cat No	HB4199
Purity	>98%
Description	DNA synthesis and repair inhibitor

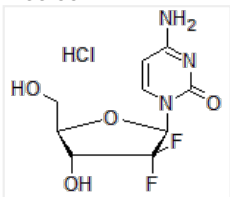
Biological Data

Biological description	Nucleoside analog which resembles Deoxycytidine and inhibits DNA synthesis and repair. Shows anticancer and antitumor activity. Also inhibits MERS-CoV and SARS-CoV in vitro (EC ₅₀ values are 1.2 and 4.9 μM, respectively).
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in water (100 mM), and in DMSO (20 mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

Chemical Data

Chemical name	(+)-2'-Deoxy-2',2'-difluorocytidine hydrochloride
Molecular Weight	299.66
Chemical structure	
Molecular Formula	C ₉ H ₁₁ F ₂ N ₃ O ₄ .HCl
CAS Number	122111-03-9
PubChem identifier	69101485
SMILES	OC[C@H]1[C@@H](O)C(F)(F)[C@H](N2C(=N)C(=O)N=C2)O1.Cl
InChi	InChI=1S/C9H11F2N3O4.ClH/c10-9(11)6(16)4(3-15)18-7(9)14-2-1-5(12)13-8(14)17;/h1-2,4,6-7,15-16H,3H2,(H2,12,13,17);1H/t4-,6-,7-;/m1./s1
InChiKey	OKKDEIYWILRZIA-OSZBKLCSSA-N
MDL number	MFCD01735988

References

Gemcitabine: a modulator of intracellular nucleotide and deoxynucleotide metabolism

Heinemann et al (1995) Semin Oncol. 22

PubMedID 7481839

Repurposing of clinically developed drugs for treatment of Middle East respiratory syndrome coronavirus infection

Dyall et al (2014) Antimicrob Agents Chemother 58(8)

PubMedID 24841273

The role of gemcitabine in the treatment of other tumours

Carmichael (1998) BR J Cancer. 78

PubMedID 9717987
