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DATASHEET

Oseltamivir phosphate

Product overview

Name	Oseltamivir phosphate
Cat No	HB7776
Alternative names	GS-4104; Ro 64-0796/002
Purity	>98%
Description	Antiviral compound. Influenza viral neuraminidase inhibitor.

Biological Data

Biological description	Oseltamivir phosphate is an influenza viral neuraminidase inhibitor which once hydrolyzed to its active metabolite can competitively inhibit viral neuraminidase (IC_{50} = 0.1-4.9nM for influenza neuraminidases A and B). Recently studied as part of COVID-19 compound repurposing.

Solubility & Handling

Storage instructions	-20°C
Solubility overview	Soluble in water (75 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	ethyl (3R,4R,5S)-4-acetamido-5-amino-3-pentan-3-yloxycyclohexene-1-carboxylate;phosphoric acid
Molecular Weight	410.4
Molecular Formula	C16H31N2O8P
CAS Number	204255-11-8
PubChem identifier	78000
SMILES	CCC(CC)O[C@@H]1C=C(C[C@@H]([C@H]1NC(=O)C)N)C(=O)OCC.OP(=O)(O)O
InChi	InChI=1S/C16H28N2O4.H3O4P/c1-5-12(6-2)22-14-9-11(16(20)21-7-3)8-13(17)15(14)18-10(4)19;1-5(2,3)4/h9,12-15H,5-8,17H2,1-4H3,(H,18,19);(H3,1,2,3,4)/t13-,14+,15+;/m0./s1
InChiKey	PGZUMBJQJWIWGJ-ONAKXNSWSA-N
MDL number	MFCD08059548

References

Inhibition of influenza virus infections in mice by GS4104, an orally effective influenza virus neuraminidase inhibitor

Sidwell RW *et al* (1998) Antiviral Res 37(2)
PubMedID 9588843

Human specific loss of olfactory receptor genes

Gilad Y *et al* (2003) Proc Natl Acad Sci U S A 100(6)

PubMedID 12612342

Computational studies of drug repurposing and synergism of lopinavir, oseltamivir and ritonavir binding with SARS-CoV-2 protease against COVID-19

Muralidharan N *et al* (2020) J Biomol Struct Dyn 43983
PubMedID 32248766