

Product Information

Ribonucleoside Xr·2H₂O

Cat. No.: X24-08-LY012

Size: 25 mg; 50 mg; 100 mg; 250 mg; 500 mg

CAS Number: 5968-90-1

Compound CID: 18530347

Synonym: 5968-90-1; Xanthosine dihydrate; Xanthosine dihydrate [MI]; Xanthosine (dihydrate); 9-beta-D-Ribofuranosylxanthine;

9-[(2*R*,3*R*,4*S*,5*R*)-3,4-Dihydroxy-5-(hydroxymethyl)oxolan-2-yl]-3*H*-purine-2,6-dione, dihydrate;

9-((2*R*,3*R*,4*S*,5*R*

)-3,4-Dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)-9*H*-purine-2,6-diol dihydrate;

9-((2*R*,3*R*,4*S*,5*R*

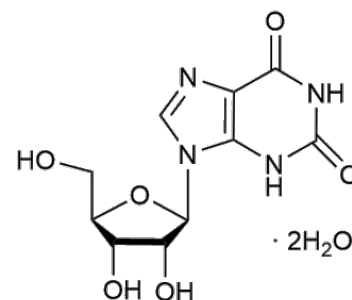
)-3,4-Dihydroxy-

5-(hydroxymethyl)tetrahydrofuran-2-yl)-3,9-dihydro-1*H*-purine-2,6-dione dihydrate;

9-((2*R*,3*R*,4*S*,5*R*

)-3,4-Dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)-9*H*-purine-2,6-dioldihydrate

This product is for research use only and is not intended for diagnostic use.



Product Information

Description	Xr·2H ₂ O is a purine nucleoside, composed of purines and ribose.
Molecular Weight	320.26
Molecular Formula	C ₁₀ H ₁₂ N ₄ O ₆ ·2H ₂ O
IUPAC Name	9-[(2 <i>R</i> ,3 <i>R</i> ,4 <i>S</i> ,5 <i>R</i>)-3,4-Dihydroxy-5-(hydroxymethyl)oxolan-2-yl]-3 <i>H</i> -purine-2,6-dione; dihydrate
InChI	InChI=1S/C10H12N4O6.2H2O/c15-1-3-5(16)6(17)9(20-3)14-2-11-4-7(14)12-10(19)13-8(4)18;;/h2-3,5-6,9,15-17H,1H2,(H2,12,13,18,19);2*1H2/t3-,5-,6-,9-;;/m1../s1
InChI Key	ZCCPXSQLUORWCO-LGVAUZIVSA-N
Canonical SMILES	C1=NC2=C(N1C3C(C(C(O3)CO)O)O)NC(=O)NC2=O.O.O
Isomeric SMILES	C1=NC2=C(N1[C@H]3[C@@H]([C@@H]([C@H](O3)CO)O)O)NC(=O)NC2=O.O.O
Form	White to off-white powder
Purity	≥99%, determined by HPLC.



Applications Xr-2H₂O can be used as a substrate and reagent in biochemical studies for the synthesis of nucleosides and nucleotide analogs.

Storage Store at 4°C.

Safety Information

Personal Protective Equipment Gloves, eyeshields, N95 mask
