

# Idoxuridine

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Idoxuridine is an anti-herpesvirus antiviral drug. It is a nucleoside analogue, a modified form of deoxyuridine, similar enough to be incorporated into viral DNA replication, but the iodine atom added to the uracil component blocks base pairing.



## Recent Publications on Idoxuridine:

- [Heavy element enhanced synchrotron stereotactic radiotherapy as a promising brain tumour treatment.](#)  
*Synchrotron stereotactic radiotherapy (SSR) is a treatment that involves...* 25th September, 2008  
Institut National de la Sante et de la Recherche Medicale, Unite 836,- Phys Med. 2008 Jun;24(2):92-7.  
Epub 2008 Apr 14. ([DOI Direct Link](#))
- [Tumour cell proliferation under hypoxic conditions in human head and neck squamous cell carcinomas.](#)  
*Two mechanisms of radiotherapy resistance of major importance in head and...* 19th September, 2008  
Department of Otorhinolaryngology, Head and Neck Surgery, Radboud- Oral Oncol. 2008  
Apr;44(4):335-44. Epub 2007 Aug 6. ([DOI Direct Link](#))
- [Periocular dermatitis: a report of 401 patients.](#)  
*Background Periocular contact dermatitis may appear as contact...* 3rd September, 2008  
Faculty of Medicine, Department of Dermatology, Venerology and- J Eur Acad Dermatol Venereol.  
2008 Aug 29. ([DOI Direct Link](#))
- [Isolation, characterization and genome sequence of a birnavirus strain from flounder \*Paralichthys olivaceus\* in China.](#)  
*A birnavirus strain, *Paralichthys olivaceus* birnavirus (POBV), was...* 21st August, 2008  
State Key Laboratory of Freshwater Ecology and Biotechnology, Institute of- Arch Virol.  
2008;153(6):1143-8. Epub 2008 Apr 9. ([DOI Direct Link](#))
- [Antiviral activities and phosphorylation of 5-halo-2'-deoxyuridines and N-methanocarbothymidine in cells infected with vaccinia virus.](#)  
*BACKGROUND: The antipoxviral activities and phosphorylation of...* 17th July, 2008  
Institute for Antiviral Research, Department of Animal, Dairy and- Antivir Chem Chemother.  
2008;19(1):15-24.
- [Enhanced experimental tumor metastasis with age in senescence-accelerated mouse.](#)  
*Tumor metastasis is affected by the host immune surveillance system. Since...* 20th June, 2008  
Department of Medical Biochemistry and Global COE Program, School of- Biol Pharm Bull. 2008  
May;31(5):847-51.
- [Vaccinia virus lacking the deoxyuridine triphosphatase gene \(F2L\) replicates well in vitro and in vivo, but is hypersensitive to the antiviral drug \(N\)-methanocarbothymidine.](#)  
*BACKGROUND: The vaccinia virus (VV) F2L gene encodes a functional...* 23rd April, 2008  
Department of Pediatrics, University of Alabama School of Medicine,- Virol J. 2008 Mar 5;5:39. ([DOI](#))

[Direct Link](#))

- [Supported synthesis and functionalization of 2'-deoxyuridine by Suzuki-Miyaura cross-coupling.](#)  
*The synthesis and modification of 2'-deoxyuridine has been realized under...*21st March, 2008  
Institut de Chimie Organique et Analytique, UMR CNRS 6005, Université- Nucleosides Nucleotides Nucleic Acids. 2007;26(10-12):1395-8. ([DOI Direct Link](#))
- [Characterization of mouse 3T3-swiss albino cells available in Japan: necessity of quality control when used as feeders.](#)  
*Mouse 3T3-Swiss albino cells are widely used as feeder cells to culture...*14th March, 2008  
Center for Pathogen Genomics, National Institute of Infectious Diseases,- Jpn J Infect Dis. 2008 Jan;61(1):9-12.
- [Replication labeling with halogenated thymidine analogs.](#)  
*In this unit, several basic protocols to identify sites of DNA replication...*21st February, 2008  
Department of Biological Science Florida State University Tallahassee,- Curr Protoc Cell Biol. 2007 Jun;Chapter 22:Unit 22.10. ([DOI Direct Link](#))
- [Use of halogenated precursors for simultaneous DNA and RNA detection by means of immunoelectron and immunofluorescence microscopy.](#)  
*We have developed a novel approach for in situ labeling and detection of...*23rd January, 2008  
Centre of Electron Microscopy, University of Lausanne, Rue du Bugnon 27,- J Histochem Cytochem. 2008 Jan;56(1):45-55. Epub 2007 Oct 15. ([DOI Direct Link](#))
- [Label-retaining cells in the rat submandibular gland.](#)  
*To identify stem cells in salivary glands, label-retaining cells (LRCs)...*23rd January, 2008  
Department of Oral Pathology, Osaka University Graduate School of- J Histochem Cytochem. 2008 Jan;56(1):15-24. Epub 2007 Sep 17. ([DOI Direct Link](#))
- [Dermal delivery of selected hydrophilic drugs from elastic liposomes: effect of phospholipid formulation and surfactants.](#)  
*The effect of phospholipid formulation and choice of surfactant on skin...*9th January, 2008  
Unit for Drug Research and Development, North-West University,- J Pharm Pharmacol. 2007 Sep;59(9):1215-22. ([DOI Direct Link](#))
- [Probabilistic modeling of DNA mismatch repair effects on cell cycle dynamics and iododeoxyuridine-DNA incorporation.](#)  
*Previous studies in our laboratory have described increased and...*6th December, 2007  
Department of Electrical Engineering and Computer Science, Case Western- Cancer Res. 2007 Nov 15;67(22):10993-1000. ([DOI Direct Link](#))
- [Concomitant quantification of targeted drug delivery and biological response in individual cells.](#)  
*Targeted therapies result in heterogeneous drug delivery, often with...*31st August, 2007  
University of Medicine and Dentistry of New Jersey, Newark, NJ 07101, USA.- Biotechniques. 2007 Jul;43(1):64, 66-71.

**Idoxuridine Clinical Trials:**



- [PET Scans in Patients With Locally Advanced Breast Cancer](#)  
*Breast Cancer*





## Idoxuridine Patents:

- 7247303- [Selected antibody CDRs for binding to aminophospholipids](#)
- 7294647- [Kappa agonist compounds and pharmaceutical formulations thereof](#)
- 7303768- [Preparation of aqueous clear solution dosage forms with bile acids](#)
- 7306783- [Membrane-permeant peptide complexes for medical imaging, diagnostics, and pharmaceutical therapy](#)
- 7306784- [Membrane-permeant peptide complexes for medical imaging, diagnostics, and pharmaceutical therapy](#)
- 7309759- [Compositions and methods for treating infections using cationic peptides alone or in combination with antibiotics](#)
- 7312241- [Diphenylethylene compounds and uses thereof](#)
- 7316360- [Pore structures for reduced pressure aerosolization](#)
- 7320798- [Coatings, coated articles and methods of manufacture thereof](#)
- 7320799- [Coatings, coated articles and methods of manufacture thereof](#)
- 7321033- [3-B-D-ribofuranosylthiazolo \[4,5-d\] pyrimidine nucleosides and uses thereof](#)
- 7294455- [Fixed-dried platelets cross-linked to protein](#)
- 7294345- [Otorhinological delivery device](#)
- 7294336- [Stabilized liquid anti-RSV antibody formulations](#)
- 7247445- [2-O sulfatase compositions and methods of hydrolyzing therewith](#)
- 7253159- [Methods and compositions for immunomodulation using CD1 antigens](#)
- 7268120- [Methods for treating cancer using cytokine-expressing polynucleotides](#)
- 7270815- [2-O sulfatase compositions and related methods](#)
- 7271156- [Immunostimulatory nucleic acids](#)
- 7271172- [Pyrrolidine and azetidine compounds as CCR5 antagonists](#)
- 7272440- [Method and apparatus for treatment of viral diseases](#)
- 7276506- [Immunosuppressive effects of pteridine derivatives](#)
- 7288265- [Treating viral infection at smallpox vaccination site](#)
- 7291497- [Medical device for analyte monitoring and drug delivery](#)
- 7328802- [Child resistant blister packages utilizing walled structures enclosing medicament therein](#)
- 7338962- [Spirocyclic heterocyclic derivatives and methods of their use](#)
- 7387771- [Method for producing an injectable medicament preparation](#)
- 7390787- [Compositions and methods for treating infections using analogues of indolicidin](#)
- 7393632- [Use of multiple recombination sites with unique specificity in recombinational cloning](#)
- 7396824- [2-O sulfatase nucleic acid compositions](#)
- 7399492- [Composition and method for issue repair and regeneration](#)
- 7399878- [Pharmaceutical compounds](#)
- 7402600- [Nitroderivatives of cardiovascular agents](#)
- 7423007- [Cxcr4 antagonist and use thereof](#)
- 7425552- [Pyridazinone compounds](#)
- 7425618- [Stabilized anti-respiratory syncytial virus \(RSV\) antibody formulations](#)
- 7384909- [Anti-viral treatment methods using phosphatidylethanolamine-binding peptides linked to anti-viral agents](#)
- 7378423- [Pyrimidine compound and medical use thereof](#)
- 7378412- [Pharmaceutical compounds](#)
- 7351399- [Prodrugs for phosphorus-containing compounds](#)

- 7351578- [Use of multiple recombination sites with unique specificity in recombinational cloning](#)
- 7351715- [Unit dosage forms for the treatment of herpes simplex](#)
- 7351739- [Bioactive compounds and methods of uses thereof](#)
- 7351827- [Substituted oxetanes, method of making, and method of use thereof](#)
- 7354584- [Recombinant IL-9 antibodies](#)
- 7355008- [Identification and engineering of antibodies with variant Fc regions and methods of using same](#)
- 7358068- [Antiviral oligonucleotides](#)
- 7374779- [Pharmaceutical formulations and systems for improved absorption and multistage release of active agents](#)
- 7378386- [Anti-viral treatment methods using phosphatidylethanolamine-binding peptide derivatives](#)
- 7429474- [2-O sulfatase compositions and methods of analyzing therewith](#)

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