

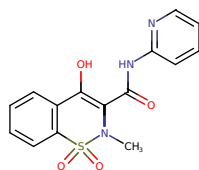
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Identification

Name	Piroxicam
Accession Number	DB00554 (APRD01187)
Type	Small Molecule
Groups	Approved, Investigational
Description	A cyclooxygenase inhibiting, non-steroidal anti-inflammatory agent (NSAID) that is well established in treating rheumatoid arthritis and osteoarthritis and used for musculoskeletal disorders, dysmenorrhea, and postoperative pain. Its long half-life enables it to be administered once daily. [PubChem]

Structure



MOL
 SDF
 3D-SDF
 PDB
 SMILES
 InChI
 [View 3D Structure](#)

Synonyms

- 4-Hydroxy-2-methyl-N-(2-pyridyl)-2H-1,2-benzothiazin-3-carboxamid-1,1-dioxid
- Feldene
- Piroxicam
- Piroxicamum
- Pyroxycam

External IDs ⓘ

Not Available

Product Ingredients ⓘ

Not Available

Approved Prescription Products

Show entries

Name	Dosage	Strength	Route	Labeller	Marketing Start	Marketing End	
Alti-piroxicam-cap 10mg	Capsule	10 mg	Oral	Altimed Pharma Inc.	1997-09-24	2004-08-03	🇨🇦
Alti-piroxicam-cap 20mg	Capsule	20 mg	Oral	Altimed Pharma Inc.	1995-12-31	2004-08-03	🇨🇦
Dom-piroxicam	Capsule	10 mg	Oral	Dominion Pharmacal	Not applicable	2016-10-25	🇨🇦
Dom-piroxicam	Suppository	10 mg	Rectal	Dominion Pharmacal	1995-12-31	2016-10-25	🇨🇦
Dom-piroxicam	Suppository	20 mg	Rectal	Dominion Pharmacal	1995-12-31	2016-10-25	🇨🇦
Dom-piroxicam	Capsule	20 mg	Oral	Dominion Pharmacal	1999-10-25	2016-10-25	🇨🇦

Feldene	Capsule	20 mg/1	Oral	Remedy Repack	2012-09-26	2016-12-23	
Feldene	Capsule	10 mg/1	Oral	Pfizer Laboratories Div Pfizer Inc.	1994-05-25	Not applicable	
Feldene Cap 10mg	Capsule	10 mg	Oral	Pfizer	1981-12-31	2002-09-06	

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Approved Generic Prescription Products

Show entries

Name	Dosage	Strength	Route	Labeller	Marketing Start	Marketing End	
Apo Piroxicam Cap 10mg	Capsule	10 mg	Oral	Apotex Corporation	1986-12-31	Not applicable	
Apo Piroxicam Cap 20mg	Capsule	20 mg	Oral	Apotex Corporation	1986-12-31	Not applicable	
Feldene	Capsule	20 mg/1	Oral	Keltman Pharmaceuticals Inc.	2007-09-18	Not applicable	
Piroxicam	Capsule	10 mg/1	Oral	Rebel Distributors	2009-11-12	Not applicable	
Piroxicam	Capsule	20 mg/1	Oral	Stat Rx USA	2011-10-07	Not applicable	
Piroxicam	Capsule	20 mg/1	Oral	A S Medication Solutions	2010-01-05	Not applicable	
Piroxicam	Capsule	20 mg/1	Oral	Golden State Medical Supply	2010-01-05	Not applicable	
Piroxicam	Capsule	20 mg/1	Oral	Mylan Pharmaceuticals	2016-09-30	Not applicable	
Piroxicam	Capsule	10 mg/1	Oral	Lake Erie Medical Dbq Quality Care Prodrts Llc	1994-10-19	Not applicable	
Piroxicam	Capsule	10 mg/1	Oral	Av Kare, Inc.	2013-06-27	Not applicable	

Showing 1 to 10 of 46 entries
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Approved Over the Counter Products

Not Available

Unapproved/Other Products

Not Available

International Brands

Show entries

Name	Company
Bruxicam	Not Available
Dolonex	Not Available
Erazon	Not Available
Geldène	Not Available
Improntal	Not Available
Revam	Repsolliak

Solocalm	Not Available
Trast	Not Available

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Brand mixtures

Show entries

Name	Labeler	Ingredients
Therafeldamine	Physician Therapeutics Llc	gamma-Aminobutyric acid / Piroxicam

Showing 1 to 1 of 1 entries

Previous **1** Next

- Categories
- Analgesics
 - Analgesics, Non-Narcotic
 - Anti-Inflammatory Agents
 - Anti-Inflammatory Agents, Non-Steroidal
 - Antiinflammatory and Antirheumatic Products
 - Antiinflammatory and Antirheumatic Products, Non-Steroids
 - Antirheumatic Agents
 - Central Nervous System Agents
 - Cyclooxygenase Inhibitors
 - Cytochrome P-450 CYP2C8 Inhibitors
 - Cytochrome P-450 CYP2C8 Substrates
 - Cytochrome P-450 CYP2C9 Inhibitors
 - Cytochrome P-450 CYP2C9 Substrates
 - Enzyme Inhibitors
 - Musculo-Skeletal System
 - Oxicams
 - Peripheral Nervous System Agents
 - Sensory System Agents
 - Sulfur Compounds
 - Thiazines

UNII	13T4O6VMAM
CAS number	36322-90-4
Weight	Average: 331.346 Monoisotopic: 331.062676609
Chemical Formula	C ₁₅ H ₁₃ N ₃ O ₄ S
InChI Key	QYSPLQLAKJAUJT-UHFFFAOYSA-N
InChI	InChI=1S/C15H13N3O4S/c1-18-13(15(20)17-12-8-4-5-9-16-12)14(19)10-6-2-3-7-11(10)23(18,21)22/h2-9,19H,1H3,(H,16,17,20)
IUPAC Name	4-hydroxy-2-methyl-1,1-dioxo-N-(pyridin-2-yl)-2H-1λ ⁶ ,2-benzothiazine-3-carboxamide
SMILES	CN1C(C(=O)NC2=NC=CC=C2)=C(O)C2=C(C=CC=C2)S1(=O)=O

Pharmacology	
Indication	For treatment of osteoarthritis and rheumatoid arthritis.
Structured Indications	<ul style="list-style-type: none"> • Ankylosing Spondylitis (AS) • Rheumatoid Arthritis • Synovitis of osteoarthritis
Pharmacodynamics	Piroxicam is in a class of drugs called nonsteroidal anti-inflammatory drugs (NSAIDs). Piroxicam works by reducing hormones that cause inflammation and pain in the body. Piroxicam is used to reduce the pain, inflammation, and stiffness caused by rheumatoid arthritis and osteoarthritis.
Mechanism of action	The antiinflammatory effect of Piroxicam may result from the reversible inhibition of cyclooxygenase, causing the peripheral inhibition of prostaglandin synthesis. The prostaglandins are produced by an enzyme called Cox-1. Piroxicam

by the platelets.

Target	Kind	Pharmacological action	Actions	Organism	UniProt ID
Prostaglandin G/H synthase 2	Protein	yes	inhibitor	Human	P35354 ↗ details
Prostaglandin G/H synthase 1	Protein	unknown	inhibitor	Human	P23219 ↗ details

Related Articles

Absorption Well absorbed following oral administration.

Volume of distribution

- 0.14 L/kg

Protein binding Not Available

Metabolism Renal

Substrate	Enzymes	Product
Piroxicam	→ Cytochrome P450 2C9	5'-Hydroxyproxicam Details

Route of elimination Piroxicam and its biotransformation products are excreted in urine and feces, with about twice as much appearing in the urine as in the feces. Approximately 5% of a piroxicam dose is excreted unchanged. However, a substantial portion of piroxicam elimination occurs by hepatic metabolism. Piroxicam is excreted into human milk.

Half life 30 to 86 hours

Clearance Not Available

Toxicity Symptoms of overdose include drowsiness, nausea, stomach pain, and/or vomiting.

Affected organisms

- Humans and other mammals

Pathway	Category	SMPDB ID
Piroxicam Action Pathway	Drug action	SMP00077

SNP Mediated Effects Not Available

SNP Mediated Adverse Drug Reactions Not Available

Interactions

Drug Interactions

Show entries

Drug	Interaction	Drug group
16-Bromoepiandrosterone	The risk or severity of adverse effects can be increased when Piroxicam is combined with 16-Bromoepiandrosterone.	Investigational
19-norandrostenedione	The risk or severity of adverse effects can be increased when Piroxicam is combined with 19-norandrostenedione.	Experimental, Illicit
4-Androstenedione	The risk or severity of adverse effects can be increased when Piroxicam is combined with 4-Androstenedione.	Experimental, Illicit
5-androstenedione	The risk or severity of adverse effects can be increased when Piroxicam is combined with 5-androstenedione.	Experimental, Illicit
Abciximab	Piroxicam may increase the anticoagulant activities of Abciximab.	Approved
Abiraterone	The serum concentration of Piroxicam can be increased when it is combined with Abiraterone.	Approved
Acebutolol	Piroxicam may decrease the antihypertensive activities of Acebutolol.	Approved
Aceclofenac	The risk or severity of adverse effects can be increased when Piroxicam is combined with Aceclofenac.	Approved

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Food Interactions

- Take with food. Avoid alcohol.

References

Synthesis Reference Paul D. Weeks, "3-Hydroxy 2-methyl benzisothiazolines as intermediates in production of piroxicam." U.S. Patent US4376204, issued April, 1982.

[US4376204](#)

General References Not Available

External Links

Resource	Link
KEGG Drug	D00127
KEGG Compound	C01608
PubChem Compound	54676228
PubChem Substance	46505225
ChEBI	8249
ChEMBL	CHEMBL527
Therapeutic Targets Database	DAP000181
PharmGKB	PA450985
Drug Product Database	1996
RxList	http://www.rxlist.com/cgi/generic/piroxicam.htm
Drugs.com	http://www.drugs.com/cdi/piroxicam.html
PDRhealth	http://www.pdrhealth.com/drug_info/rxdrugprofiles/drugs/fel1173.shtml
Wikipedia	Piroxicam

ATC Codes

M02AA07
 M02AA – Antiinflammatory preparations, non-steroids for topical use
 M02A – TOPICAL PRODUCTS FOR JOINT AND MUSCULAR PAIN
 M02 – TOPICAL PRODUCTS FOR JOINT AND MUSCULAR PAIN
 M – MUSCULO-SKELETAL SYSTEM

S01BC06
 S01BC – Antiinflammatory agents, non-steroids
 S01B – ANTIINFLAMMATORY AGENTS
 S01 – OPHTHALMOLOGICALS
 S – SENSORY ORGANS

M01AC01
 M01AC – Oxicams
 M01A – ANTIINFLAMMATORY AND ANTIRHEUMATIC PRODUCTS, NON-STEROIDS
 M01 – ANTIINFLAMMATORY AND ANTIRHEUMATIC PRODUCTS
 M – MUSCULO-SKELETAL SYSTEM

AHFS Codes

- 28:08.04.92

PDB Entries Not Available

FDA label [Download](#) (74.3 KB)

MSDS [Download](#) (73.3 KB)

Clinical Trials

Clinical Trials

Show entries

Phase	Status	Purpose	Conditions	Count
1, 2	Recruiting	Treatment	Renal Colic	1
2	Completed	Not	Postcoital Contraception	1

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