

8024454-805

For the use of a Registered Medical Practitioner or a Hospital or a Laboratory only.

JOINCERIN

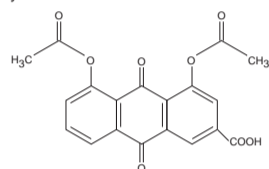
Diacerein Tablets 50 mg

COMPOSITION

Each film coated tablet contains :
Diacerein I.P. 50 mg
Colours : Lake of Quinoline Yellow & Titanium Dioxide

DESCRIPTION

Diacerein is a low-molecular-weight heterocyclic compound designated as (4,5-bis(acetyloxy)-9,10-dioxo-2-anthracene carboxylic acid). Following oral administration, it is rapidly metabolized to the deacetylated active metabolite, rhein. Rhein is an anthraquinone found in plants of the Genus Cassia and has moderate anti-inflammatory and analgesic activity.

**CLINICAL PHARMACOLOGY****Mechanism of action**

The mechanism of action defers from the nonsteroidal anti-inflammatory drugs since it is not related to the inhibition of the synthesis of the prostaglandins. Anti-osteoarthritic and cartilage-stimulating properties have been demonstrated in vitro and in animals models. Diacerein and rhein have been shown to inhibit the production of interleukin-1 beta by human monocytes and the effects of the cytokine on chondrocytes in vivo. They exert chondroprotective effects in cultured articular cartilage and reduce severity of cartilage, bone, and synovial membrane damage in osteoarthritis. There appear to be some inhibitory effects on leucocyte migration and activation, contributing to the weak anti-inflammatory activity of the drug. Studies indicate that diacerein does not block the synthesis of prostaglandins, thromboxanes, or leukotrienes but may actually stimulate prostaglandin synthesis, especially PGF-2 alpha, a prostaglandin with cytoprotective effect on the gastric mucosa.

Diacerein in therapeutic doses inhibits the stimulation of interleukin-1beta production and production of nitrous oxide. It also significantly reduces severity of pathological changes of osteoarthritis compared to placebo and increases the expression of transforming growth factor (TGF)-beta1 and (TGF)-beta2, with

potential cartilage repairing properties. Diacerein does not alter renal or platelet cyclooxygenase activity and may therefore be tolerated by patients with prostaglandin-dependent renal function.

Pharmacokinetics**Absorption**

Oral bioavailability of Diacerein is 35% to 56%. Concurrent intake of food delays the time to peak concentration from 2.4 hours to 5.2 hours, but is associated with a 25% increase in absorption. Therefore, diacerein is best given with food.

Distribution

Total protein binding of rhein is about 99% to plasma albumin and in a lesser percentage to lipoproteins and gamma-immunoglobulins. It achieves synovial fluid concentration of 0.3 to 3.0 milligrams/liter.

Metabolism

Diacerein is metabolized extensively (100%) in liver following oral dosing, prior to entering systemic circulation. Major active metabolites include rhein glucuronide and rhein sulfate with half life being 7 to 8 hours.

Excretion

Urinary excretion of diacerein in the form of its metabolites has ranged between 35% and 60%, with approximately 20% as free rhein and 80% as conjugates of rhein.

Special Populations**Geriatric patients:**

Doses exceeding 100 milligrams diacerein daily may warrant close clinical monitoring in geriatric patients.

Pediatric patients:

Pharmacokinetics of diacerein are not studied in pediatric population and its administration is not recommended in pediatric population.

Hepatic Insufficiency:

Pharmacokinetics were unchanged in patients with severe cirrhosis after receiving a single oral dose of diacerein 50 milligrams. However, since cirrhosis may influence drug accumulation after multiple doses, close clinical monitoring is advised for patients with hepatic insufficiency.

Renal Insufficiency:

In patients with mild to severe renal insufficiency, there was a significant increase in the area-under the-curve and a decrease in the total apparent clearance in renal insufficiency patients compared to the healthy adults. Severe renal failure (creatinine clearance 10 to 27 milliliters/minute) showed a significantly decreased renal clearance of rhein.

INDICATIONS

For the symptomatic treatment of Osteoarthritis of the hip or knee.

DOSAGE AND ADMINISTRATION

50 milligrams (mg) administered orally BID for the treatment of OSTEOARTHRITIS of the hip or knee. Initiate the treatment with one tablet night time for 2 to 4 weeks; gradually adjust the dose to two tablets twice daily. Oral absorption is greatest when administered with food.

USE IN SPECIAL POPULATIONS**Pregnancy**

The use of diacerein is not recommended in women attempting to conceive. No clinical data on exposed pregnancies are available for diacerein. The potential for human risk in pregnancy is unknown.

Lactation

Pharmacokinetics of diacerein has not been studied in lactating women and its administration is not recommended.

Pediatric Use

Pharmacokinetics of diacerein has not been studied in pediatric population and its administration is not recommended in pediatric population.

Geriatric Use

Doses exceeding 100 milligrams diacerein daily may warrant close clinical monitoring in geriatric patients.

Hepatic Insufficiency

No significant difference in pharmacokinetic parameters of rhein between patients with liver impairment and healthy volunteers was observed either in plasma or in urine assessments. However, since cirrhosis may influence drug accumulation after multiple doses, close clinical monitoring is advised for patients with hepatic insufficiency.

Renal Insufficiency

In patients with mild-to-severe renal insufficiency, there was a significant increase in the area-under the-curve and a decrease in the total apparent clearance compared to the healthy adults. Severe renal failure (creatinine clearance 10 to 27 milliliters/minute) showed a significantly decreased renal clearance of rhein; therefore, a 50% reduction in the dose of diacerein should be made in patients with severe renal insufficiency. Diacerein dose should be reduced by half in patients with a creatinine clearance less than 2.4 liters/hour.

CONTRAINDICATIONS

Hypersensitivity to diacerein or any components of this product.

WARNINGS

- It is recommended to initiate use of a tablet at night for initial 2 to 4 weeks since the use of the drug initially can produce an acceleration of the time of intestinal transit.
- It is recommended to prolong the treatment by at least 6 months: the clinical studies have demonstrated that the drug can be used for 2 years without serious problems.
- As with any other prolonged treatment, it is recommended to monitor laboratory parameters, including hepatic enzymes, every 6 months.
- Combined use with laxatives is contraindicated.

ADVERSE EFFECTS

Generally, the drug has been well tolerated. The commonest reported adverse reaction was acceleration of the time of intestinal transit

(diarrhea 37% of patients). Few cases of abdominal pains have been described. The modification of the dose in the initial periods of the treatment (2 to 4 weeks) has allowed to surpass or to diminish these adverse events. Other adverse events reported are urine discoloration in 14.4% cases and a single case of hypokalemia, hepatotoxicity resulting into acute hepatitis and fatal toxic epidermal necrolysis (Lyell's syndrome).

CARCINOGENESIS, MUTAGENESIS, IMPAIRMENT OF FERTILITY

No data regarding carcinogenesis, mutagenesis, impairment of fertility is available.

DRUG INTERACTIONS

The clinical studies have demonstrated the absence of interaction between the drugs such as: warfarin, tolbutamide, aspirin (acetylsalicylic acid), chlorpromazine and indomethacin.

OVERDOSAGE

In cases of overdose it can produce a profuse diarrhea. The treatment must be symptomatic with correction of any electrolyte imbalance which may be necessary.

EXPIRY DATE

Do not use later than the date of expiry.

STORAGE

Store in a dry place at a temperature not exceeding 30°C, protected from light. Keep out of reach of children.

PRESENTATION

JOINCERIN is available in strip of 10 tablets.



Manufactured by :
TORRENT PHARMACEUTICALS LTD.
Vill. Bhud & Makhnu Majra, Baddi-173 205,
Teh. Nalagarh, Dist. Solan (H.P.), INDIA.



943

PRODUCT NAME :	JOINCERIN	COUNTRY : Domestic	LOCATION : BADDI	Supersedes A/W No.:			
ITEM / PACK :	Pack Insert	NO. OF COLORS: 1	REMARK :				
DESIGN STYLE :	Front/Back	COATES COLOUR NOS.:	SUBSTRATE :				
CODE :	8024454-805	Black	Activities	Department	Name	Signature	Date
DIMENSIONS (MM) :	120 x 180 mm		Prepared By	Pkg.Dev			
THERAPEUTIC RANGE :	Miscellaneous			Pkg.Dev			
ART WORK SIZE :	S/S		Reviewed By	CR			
DATE :	08-11-2010			RA			
			Approved By	CQA			