

IMIREN

Imipenem & Cilastatin injection 1 gm / 0.5 gm

A True
STRATEGIC MOVE



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DESCRIPTION

IMIREN is a potent broad spectrum antibacterial agent for intravenous administration. Imipenem (N-formimidoylthienamycin monohydrate) is a crystalline derivative of thienamycin, which is produced by *Streptomyces cattleya*

MODE OF ACTION:

Imipenem is a potent inhibitor of bacterial cell wall synthesis and is bactericidal against a broad spectrum of pathogens. It is resistant to degradation by bacterial β -lactamases. Cilastatin is an inhibitor of dehydropeptidase I, an enzyme found in the brush border of the renal tubules. It is given as the sodium salt with imipenem to prevent its renal metabolism and protect against nephrotoxic effects.

INDICATIONS AND USAGE

For the treatment of serious lower respiratory tract infections, urinary tract infections, intra-abdominal, Gynecological infections, skin & skin structure infections, bone and joint infection, endocarditis and bacterial septicemia.

DOSAGE AND ADMINISTRATION

Adults

- ⦿ The dosage recommendations for **IMIREN** represent the quantity of Imipenem to be administered. An equivalent amount of cilastatin is also present in the solution.

Susceptible infections

Adult:

- ⦿ In terms of Imipenem, 1-2 g daily in divided doses every 6-8 hr, given via IV infusion. Doses 250 or 500 mg are infused over 20-30 minutes, and doses of 750 mg or 1g over 40-60 minutes.

Max Dosage:

- ⦿ Adults and children >40 kg: 4 g/day or 50 mg/kg. Children <40 kg: 2 g/day.

CrCl (ml/min)	Dosage Recommendation
31-70	500 mg every 6-8 hr
21-30	500 mg every 8-12 hr
6-20	250 mg or 3.5 mg/kg (whichever is lower) every 12 hr
≤5	Only give if haemodialysis started within 48 hr

Vials

IMIREN, as supplied in single use vials and reconstituted with the following diluents:

0.9% Sodium Chloride Injection, 5% or 10% Dextrose Injection, 5% Dextrose and 0.9% Sodium Chloride Injection, 5% Dextrose Injection with 0.225% or 0.45% saline solution, 5% Dextrose Injection with 0.15% potassium chloride solution, Mannitol 5% and 10%

PRESENTATION

IMIREN is supplied as a sterile powder mixture in single dose vial containing following contents.

- ⦿ **IMIREN 0.5g:** 500 mg imipenem and 500 mg cilastatin
- ⦿ **IMIREN 1g:** 1gm imipenem and 1gm cilastatin.

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