

RARELY USED**temsirolimus (Rx)**

(tem-sir-oh'li-mus)

Torisel*Func. class.:* Biologic response modifier*Chem. class.:* Kinase inhibitor, mTOR antagonist**USES:** Renal cell carcinoma**CONTRAINDICATIONS:** Pregnancy, breastfeeding; hypersensitivity to this product or to sirolimus; polysorbate 80**Precautions:** Children <13 yr, females, severe pulmonary/renal/hepatic disease (bilirubin $>1-1.5 \times$ ULN or AST $>$ ULN but bilirubin \leq ULN), diabetes mellitus, hyperkalemia, hyperuricemia, hypertension, bone marrow suppression, hypertriglyceridemia/hyperlipidemia, surgery, brain tumors**DOSAGE AND ROUTES**

- **Adult:** **IV** 25 mg over 30-60 min weekly; treat until disease progression or severe toxicity occurs

Hepatic dose

- **Adult:** **IV** (mild impairment) bilirubin $>1-1.5 \times$ ULN or AST $>$ ULN but bilirubin \leq ULN: reduce to 15 mg/wk; moderate or severe impairment, do not use

HIGH ALERT**tenecteplase (TNK-tPA) (Rx)**

(ten-ek'ta-place)

TNKase*Func. class.:* Thrombolytic*Chem. class.:* Tissue plasminogen activator**Do not confuse:****TNKase/Activase****ACTION:** Activates conversion of plasminogen to plasmin (fibrinolysin): plasmin breaks down clots (fibrin),

fibrinogen, factors V, VII; occlusion of venous access lines

USES: Acute myocardial infarction, coronary artery thrombosis**CONTRAINDICATIONS:** Hypersensitivity, arteriovenous malformation, aneurysm, active bleeding, intracranial/intraspinal surgery or trauma within 2 mo, CNS neoplasms, severe hypertension, severe renal/hepatic disease, history of CVA, increased ICP/stroke**Precautions:** Pregnancy, breastfeeding, children, geriatric patients, arterial emboli from left side of heart, hypocoagulation, subacute bacterial endocarditis, rheumatic valvular disease, cerebral embolism/thrombosis/hemorrhage, intraarterial diagnostic procedure or surgery (10 days), recent major surgery, dysrhythmias, hypertension**DOSAGE AND ROUTES****Total dose, max 50 mg based on patient's weight**

- **Adult <60 kg:** **IV BOL** 30 mg, give over 5 sec
- **Adult ≥ 60 -<70 kg:** **IV BOL** 35 mg, give over 5 sec
- **Adult ≥ 70 -<80 kg:** **IV BOL** 40 mg, give over 5 sec
- **Adult ≥ 80 -<90 kg:** **IV BOL** 45 mg, give over 5 sec
- **Adult ≥ 90 kg:** **IV BOL** 50 mg, give over 5 sec, max 50 mg total dose

Available forms: Powder for inj, lyophilized 50 mg**Administer:****Intermittent IV INFUSION route**

- As soon as thrombi are identified; not useful for thrombi >1 wk old
- Cryoprecipitate or fresh frozen plasma if bleeding occurs
- Heparin after fibrinogen level >100 mg/dL; heparin infusion to increase PTT to 1.5-2 \times baseline for 3-7 days; IV heparin with loading dose is recommended
- Aseptically withdraw 10 mL of sterile water for inj from diluent vial; use red cannula syringe-filling device; inject all contents of syringe into product vial; direct into powder, swirl, withdraw correct