ACR/ARP Medication Guide



ASSOCIATION of RHEUMATOLOGY PROFESSIONALS

The Interprofessional Division of the American College of Rheumatology

Certolizumab Pegol (Cimzia®)

Certolizumab pegol (Cimzia[®]) binds to human tumor necrosis factor alpha (TNF α), a pro-inflammatory cytokine with a central role in inflammatory processes. Certolizumab pegol does not contain a fragment crystallizable (Fc) region, which is normally present in a complete antibody. Certolizumab pegol neutralizes both soluble and transmembrane forms of TNF α , blocking the binding of TNF α to its receptors and inhibiting the biologic activity of TNF α .

Resources from Manufacturer

Cimzia Patient Medication Guide

Cimzia Full Prescribing Information

Cimzia Co-pay Assistance Program

USB Patient Assistance Foundation

Indications and Dosing in Rheumatology

Certolizumab is indicated for:

- Adults with moderately to severely active rheumatoid arthritis (RA)
- Adult patients with active psoriatic arthritis (PsA)
- Adult patients with active ankylosing spondylitis (AS)
- Adult patients with non-radiographic axial spondyloarthritis (nr-axSpA) with objective signs of inflammation
- Adult patients with moderately to severely active Crohn's disease

Dosing:

Rheumatoid Arthritis (RA), Psoriatic Arthritis (PsA), Ankylosing Spondylitis (AS), and non-radiographic axial spondyloarthritis (nr-axSpA)

- Loading dose: Subcutaneous injection of 400 mg (given as two injections of 200 mg each) initially at week 0, week 2, and week 4
- Maintenance dose: Subcutaneous injection of 200 mg every 2 weeks, or 400 mg every 4 weeks

Contraindications

Hypersensitivity reaction to certolizumab pegol or any of the excipients.

ACR/ARP Medication Guide

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Warnings and Precautions

- Serious Infections–Do not initiate certolizumab pegol during an active infection. If a serious infection develops, discontinue certolizumab pegol until the infection is controlled.
- Hepatitis B reactivation–Monitor HBV carriers during and several months after therapy. If reactivation occurs, stop certolizumab pegol and begin anti-viral therapy.
- Malignancies–Patients with highly active forms of rheumatoid arthritis and other chronic inflammatory diseases who are exposed to immunosuppressant therapy may be at a higher risk for developing lymphomas than the general population. Risks and benefits of treatment should be evaluated in patients with a known malignancy.
- Congestive heart failure (CHF)–Closely monitor patients with CHF that are initiated on certolizumab pegol. Discontinue therapy if new or worsening signs of CHF appear.
- Neurologic reactions—New onset or exacerbation of demyelinating disorders may occur; use caution in patient with pre-existing or recent onset demyelinating disorders.
- Lupus-like syndrome–Discontinue if symptoms occur.
- Use with abatacept, anakinra, natalizumab, and rituximab–Not recommended due to increased risk of serious infections.
- Hematologic cytopenia–Caution should be taken in patients who have or have had significant cytopenias, including leukopenia, pancytopenia, and thrombocytopenia.
- Live vaccination–Avoid use with certolizumab pegol
- Hypersensitivity reaction–Discontinue certolizumab pegol if anaphylaxis or other serious allergic reaction occurs

Adverse Reactions

Most common adverse reactions (\geq 7%):

- Upper respiratory tract infections
- Rash
- Urinary tract infection

Medication Strength and Preparations

- Single-dose pre-filled syringe: 200 mg/mL
- Lyophilized powder in single-dose vial (for SC injection): 200 mg

Medication Administration and Storage

- Store in original carton to protect from light
- Store in refrigerator at 2°C to 8°C (36°F to 46°F) do not freeze
- Needle cover of pre-filled syringe contains latex

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Subcutaneous Administration

- Before administration, allow syringe to warm to room temperature for 30 90 minutes
- Inject subcutaneously into front of thigh or lower abdomen (avoid injecting within 2 inches of navel)
- When a 400 mg dose is needed (given as two separate injections of 200 mg), injections should occur at separate sites
- Do not administer into tender, bruised, red or hard skin
- Rotate injection sites (≥ 1 inch apart)

Subcutaneous Medication Preparation of Lyophilized Powder

- 1. Unopened certolizumab pegol vials may be stored at room temperature (up to 25°C, or 77°F) for 6 months, but not exceeding the original expiration date. If stored at room temperature, do not place back in refrigerator and write the new expiration date on the carton.
- 2. Remove certolizumab pegol from the refrigerator and allow the vial(s) to sit at room temperature for 30 minutes before reconstituting.
- 3. Reconstitute the vial(s) with 1 mL of Sterile Water for Injection, USP using the 20-gauge needle provided, with the sterile water directed at the vial wall rather than the powder.
- 4. Gently swirl each vial as gently as possible and without shaking to avoid creating a foaming effect for about one minute.
- 5. Continue swirling every 5 minutes as long as non-dissolved particles are observed. Full reconstitution may take as long as 30 minutes.
- 6. The final reconstituted solution contains 200 mg/mL, should be clear to opalescent, colorless to pale yellow, and free from particulates.

Subcutaneous Medication Administration of Reconstituted Lyophilized Powder

- 7. Once reconstituted, certolizumab pegol can be stored in the vials for up to 24 hours prior to injection.
- 8. Prior to injection, ensure reconstituted solution is at room temperature, but not more than 2 hours prior to administration.
- 9. Withdraw the reconstituted solution into a 1 mL syringe. Replace the needle on the syringe with a 23-gauge needle for subcutaneous administration into the thigh or abdomen.
- 10. When a 400 mg dose is needed, 2 injections of 200 mg each are required with administration into separate sites.

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