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# CCR2 Antagonist PF-04136309

National Cancer Institute

## Source

National Cancer Institute. *CCR2 Antagonist PF-04136309*. NCI Thesaurus. Code C97507.

An orally available human chemokine receptor 2 (CCR2) antagonist with potential immunomodulating and antineoplastic activities. Upon oral administration, CCR2 antagonist PF-04136309 specifically binds to CCR2 and prevents binding of the endothelium-derived chemokine ligand CLL2 (monocyte chemoattractant protein-1 or MCP1) to its receptor CCR2, which may result in inhibition of CCR2 activation and signal transduction. This may inhibit inflammatory processes as well as angiogenesis, tumor cell migration, and tumor cell proliferation. The G-protein coupled receptor CCR2 is expressed on the surface of monocytes and macrophages, stimulates the migration and infiltration of these cell types, and plays an important role in inflammation, angiogenesis, and tumor cell migration and proliferation.