Inflammatory Disease Therapeutics

OCR Number: OCR 6558

Description:

Structure-based design of MIF Antagonists

Macrophage migration inhibitory factor (MIF) is a pro-inflammatory cytokine released by T-cells and macrophages. Key role in a wide range of diseases including rheumatoid arthritis, sepsis, atherosclerosis, asthma, and ARDS.

Highly potent (<100nM) MIF antagonists with drug-like properties and economical synthesis routes discovered using structure-based drug design

- OCR6558-333 analog has desirable plasma exposure

Novel/Improved Assays for SAR

- OCR6558-326 Drug-like properties
  - Eurofins Cereb HitProfile + CYP450s: 35 assays – no hits
  - Human & Rat Liver Microsomes: t1/2 > 60 min; CLint < 115 μL/min/mg

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