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
- OCR6558-326 Drug-like properties
  - Eurofins CerebHitProfile + CYP450s: 35 assays – no hits
  - Human & Rat Liver Microsomes: t½ > 60 min; CLint < 115 µL/min/mg

**Novel/Improved Assays for SAR**

PI: William Jorgensen

Licensing Contact: David Lewin
david.lewin@yale.edu