

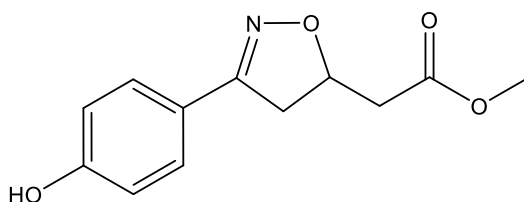
Catalog # 10-1185

ISO-1

CAS# 478336-92-4

(S,R)-3-(4-Hydroxyphenyl)-4,5-dihydro-5-isoxazole acetic acid, methyl ester

Lot # X102901



Antagonist of macrophage migration inhibitory factor (MIF, a pro-inflammatory cytokine). Displays anti-inflammatory activity. Increases survival in severe sepsis¹. Inhibits airway remodeling in mouse asthma model². Blocks MIF-induced autophagy³. Active in cellular and mouse models.

- 1) Al-Abed *et al.* (2005), *ISO-1 binding to the tautomerase active site of MIF inhibits its pro-inflammatory activity and increases survival in severe sepsis*; J. Biol. Chem., **280** 36541
- 2) Chen *et al.* (2010), *ISO-1, a macrophage migration inhibitory factor antagonist, inhibits airway remodeling in a murine model of chronic asthma*; Mol. Med., **16** 400
- 3) Chuang *et al.* (2012), *Macrophage migration inhibitory factor induces autophagy via reactive oxygen species generation*; PLoS One, **7** e37613

PHYSICAL DATA

Molecular Weight:	235.24
Molecular Formula:	C ₁₂ H ₁₃ NO ₄
Purity:	98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (up to 25 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 2 months

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