

**DATA SHEET**

**Product Name:** ISO-1

**Catalog #:** N-3017

**Alt:** CAS # 478336-92-4; (S,R)-3-(4-Hydroxyphenyl)-4,5-dihydro-5-isoxazole acetic acid, methyl ester

**Source:** Synthetic

**Molecular Mass:** 235.2 C<sub>12</sub>H<sub>13</sub>NO<sub>4</sub>

**Analysis:** 98% (HPLC); NMR (Conforms)

**Supplied As:** Off-white powder

**Resuspension:** May be dissolved in DMSO (25 mg/ml)

**Storage:** Store desiccated as supplied at -20°C for up to 2 years. Store solutions at -20°C for up to 2 months.

**Description:** Antagonist of macrophage migration inhibitory factor (MIF, a pro-inflammatory cytokine). Displays anti-inflammatory activity. Increases survival in severe sepsis<sup>1</sup>. Inhibits airway remodeling in mouse asthma model<sup>2</sup>. Blocks MIF-induced autophagy<sup>3</sup>. Inhibits experimental autoimmune diabetes in a mouse model, reducing islet antigen-specific proliferative responses and adhesive cell-cell interactions<sup>4</sup>. Active in cellular and mouse models. Reverses A $\beta$ -induced toxicity in mouse and human neuronal cell lines<sup>5</sup>.

**References:**

1. Al-Abed, Y., et al., (2005) J. Biol. Chem., *280*: 36541
2. Chen, P.F., et al., (2010) Mol. Med., *16*: 400
3. Chuang, Y.C., et al., (2012) PLoS One, *7*: e37613
4. Cvetkovic, I., et al., (2005) Endocrinology, *146*: 2942
5. Bacher, M., et al., (2010) Mol. Med., *16*: 116

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