

Catalog # 10-3409 VGX-1027

CAS# 6501-72-0 4,5-Dihydro-3-phenyl-5-isoxazoleacetic acid GIT 27 Lot # X109228

Immunomodulator. Inhibits secretion of IL-1ß, TNF-α, and IL-10 from murine macrophages stimulated with LPS and spares T cell function.¹ Ameliorates the course of acute and chronic immunoinflammatory conditions such as carrageenan-induced pleurisy, LPS-induced lethality and type II collagen-induced arthritis in mouse models.¹ Prevents spontaneous and accelerated forms of autoimmune diabetes in a NOD mouse model.² Moldulates genes involved in LPS-induced Toll-like receptor 4 activation in a mouse Lupus model.³ Displays protective effects in particulate matter-induced acute lung injury by blocking TLR4 signaling.⁴

- 1) Stojanovic et al. (2007), In vitro, ex vivo and in vivo immunopharmacological activities of the isooxazoline compound VGX-1027: modulation of cytokine synthesis and prevention of both organ-specific and systemic autoimmune diseases in murine models; Clin. Immunol., 123 311
- 2) Stosic-Grujisic et al. (2007), A potent immunomodulatory compound, (S,R)-3-Phenyl-4,5-dihydro-5-isoxazole acetic acid, prevents spontaneous and accelerated forms of autoimmune diabetes in NOD mice and inhibits the immunoinflammatory diabetes induced by multiple low doses of streptozotocin in CBA/H mice; J. Pharmacol. Exp. Ther., **320** 1038
- 3) Fagone et al. (2014), VGX-1027 modulates genes involved in lipopolysaccharide-induced Toll-like receptor 4 activation and in a murine model of systemic lupus erythematosus; Immunology, **142** 594
- Xu et al. (2019), Protective effects of VGX-1027 in PM_{2.5}-induced airway inflammation and bronchial hyperresponsiveness; Eur. J, Pharmacol.,
 842 373

PHYSICAL DATA

Molecular Weight: 205.21

Molecular Formula: C₁₁H₁₁NO₃

Purity: 98% by HPLC

NMR: (Conforms)

Solubility: DMSO (up to 30 mg/ml)

Physical Description: White solid

Storage and Stability: Store as supplied desiccated 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 3 months.

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