

Catalog # 10-3409

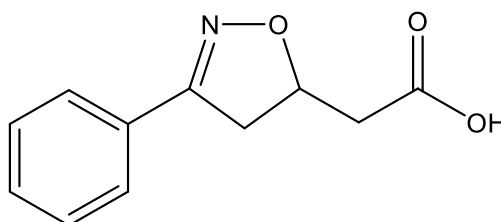
VGX-1027

CAS# 6501-72-0

4,5-Dihydro-3-phenyl-5-isoxazoleacetic acid

GIT 27

Lot # X109228



Immunomodulator. Inhibits secretion of IL-1 β , 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 Modulates 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 isoxazoline 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-Grujicic *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
- 4) 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:	C ₁₁ H ₁₁ NO ₃
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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