Print Date: May 9th 2013

Certificate of Analysis

www.tocris.com

Product Name: **GIT 27** **Catalog No.: 3270** **Batch No.: 1**

CAS Number: 6501-72-0

IUPAC Name: 4,5-Dihydro-3-phenyl-5-isoxazoleacetic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{11}H_{11}NO_3$

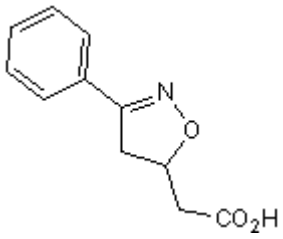
Batch Molecular Weight: 205.21

Physical Appearance: tan solid

Solubility: water to 5 mM with gentle warming
DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >99.8% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	64.38	5.4	6.82
Found	64.23	5.32	6.94

Product Name: GIT 27 **Catalog No.: 3270** **Batch No.: 1**

CAS Number: 6501-72-0

IUPAC Name: 4,5-Dihydro-3-phenyl-5-isoxazoleacetic acid

Description:

Orally active immunomodulatory agent that primarily targets macrophages. Inhibits TNF-α secretion via interference of macrophage toll-like receptor (TLR) 4 and TLR 2/6 signaling pathway. Also reduces the secretion of pro-inflammatory cytokines IL1-β, IL-10 and IFN-γ. Antidiabetogenic; prevents IL-β and IFN-γ-induced pancreatic islet cell death in vitro.

Physical and Chemical Properties:

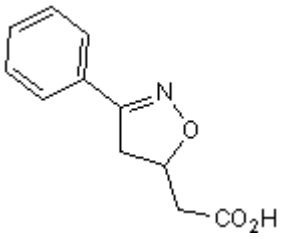
Batch Molecular Formula: $C_{11}H_{11}NO_3$

Batch Molecular Weight: 205.21

Physical Appearance: tan solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

water to 5 mM with gentle warming
DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Stosic-Grujicic *et al* (2007) A potent immunomodulatory compound (*S,R*)-3-phenyl-4,5-dihydro-5-isoxasoleacetic 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. PMID: 17148780.

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. PMID: 17449326.

Mangano *et al* (2008) *In vitro* inhibition of enterobacteria-reactive CD4+CD25- T cells and suppression of immunoinflammatory colitis in mice by the novel immunomodulatory agent VGX-1027. Eur.J.Pharmacol. ***586*** 313. PMID: 18374912.