

## Certificate of Analysis

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**Product Name:** GIT 27

**Catalog No.:** 3270

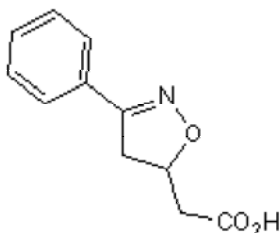
**Batch No.:** 1

CAS Number: 6501-72-0

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

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>11</sub>H<sub>11</sub>NO<sub>3</sub>  
**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 99.7% purity  
**<sup>1</sup>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

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

**bio-techne.com**  
[info@bio-techne.com](mailto:info@bio-techne.com)  
[techsupport@bio-techne.com](mailto:techsupport@bio-techne.com)

**North America**  
Tel: (800) 343 7475

**China**  
[info.cn@bio-techne.com](mailto:info.cn@bio-techne.com)  
Tel: +86 (21) 52380373

**Europe Middle East Africa**  
Tel: +44 (0)1235 529449

**Rest of World**  
[www.tocris.com/distributors](http://www.tocris.com/distributors)  
Tel: +1 612 379 2956

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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- $\alpha$  secretion via interference of macrophage toll-like receptor (TLR) 4 and TLR 2/6 signaling pathway. Also reduces the secretion of pro-inflammatory cytokines IL-1- $\beta$ , IL-10 and IFN- $\gamma$ . Antidiabetogenic; prevents IL- $\beta$  and IFN- $\gamma$ -induced pancreatic islet cell death in vitro.

**Physical and Chemical Properties:**

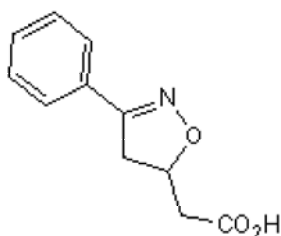
Batch Molecular Formula: C<sub>11</sub>H<sub>11</sub>NO<sub>3</sub>

Batch Molecular Weight: 205.21

Physical Appearance: Tan solid

**Minimum Purity:** >99%

**Batch Molecular Structure:**



**References:**

**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.

**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.

**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 stre J.*Pharmacol.Exp.Ther.* **320** 1038. PMID: 17148780.

**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.

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info@bio-techne.com

techsupport@bio-techne.com

**North America**

Tel: (800) 343 7475

**China**

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