# a biotechne brand Certi

Batch No.: 1

### **Certificate of Analysis**

#### www.tocris.com

Catalog No.: 5133

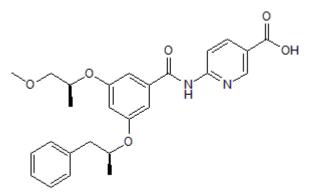
#### Product Name: GKA 50

CAS Number: IUPAC Name: 851884-87-2

6-[[3-[(1S)-2-Methoxy-1-methylethoxy]-5-[(1S)-1-methyl-2-phenylethoxy]benzoyl]amino-3-pyridinecarboxylic acid

#### 1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: C<sub>26</sub>H<sub>28</sub>N<sub>2</sub>O<sub>6</sub>.<sup>1</sup>/<sub>4</sub>H<sub>2</sub>O 469.01 White solid DMSO to 100 mM Store at -20°C



#### 2. ANALYTICAL DATA

TLC: HPLC: <sup>1</sup>H NMR: Mass Spectrum: Microanalysis:  $R_{f} = 0.48 \text{ (Chloroform:Methanol [9:1])}$ Shows 98.8% purity
Consistent with structure
Consistent with structure
Carbon Hydrogen Nitrogen
Theoretical 66.58 6.12 5.97
Found 66.63 6.1 5.95

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

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## TOCRIS a biotechne brand

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#### Product Name: GKA 50

CAS Number: IUPAC Name:

6-[[3-[(1S)-2-Methoxy-1-methylethoxy]-5-[(1S)-1-methyl-2-phenylethoxy]benzoyl]amino-3-pyridinecarboxylic acid

#### **Description:**

Potent glucokinase activator ( $EC_{50} = 33$  nM). Significantly reduces plasma glucose levels in diabetic rats; stimulates insulin release from mouse islets of Langerhans.

851884-87-2

#### **Physical and Chemical Properties:**

Batch Molecular Formula:  $C_{26}H_{28}N_2O_6$ . <sup>1</sup>/<sub>4</sub> H<sub>2</sub>O Batch Molecular Weight: 469.01 Physical Appearance: White solid

Minimum Purity: >98%

#### **Batch Molecular Structure:**

# 

#### Storage: Store at -20°C

Solubility & Usage Info: 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).

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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:

**Coope** *et al* (2006) Predictive blood glucose lowering efficacy by Glucokinase activators in high fat fed female Zucker rats. Br.J.Pharmacol. **149** 328. PMID: 16921397.

Johnson *et al* (2007) Glucokinase activators: molecular tools for studying the physiology of insulin-secreting cells. Biochem.Soc.Trans. **35** 1208. PMID: 17956314.

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