TOCRIS a biotechne brand

Catalog No.: 4782

Certificate of Analysis

www.tocris.com

Batch No.: 1

Product Name: Org 25543 hydrochloride

CAS Number: IUPAC Name:

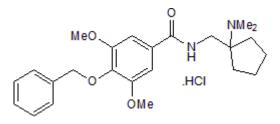
495076-64-7

N-[[1-(Dimethylamino)cyclopentyl]methyl]-3,5-dimethoxy-4-(phenylmethoxy)benzamide hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: C₂₄H₃₂IN₂O₄.HCl.¹/₄H₂O 453.48 White solid water to 20 mM DMSO to 100 mM ethanol to 20 mM Desiccate at RT

Storage: Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: ¹H NMR: Mass Spectrum: Microanalysis:

Shows 99.4% purity Consistent with structure Consistent with structure

	Carbon	Hydrogen	Nitrogen
Theoretical	63.57	7.45	6.18
Found	63.31	7.43	6.2

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

bio-techne.com	North America	China	Europe Middle East Africa	Rest of World
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Print Date: Jan 14th 2016

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Product Name: Org 25543 hydrochloride

CAS Number: IUPAC Name: 495076-64-7

N-[[1-(Dimethylamino)cyclopentyl]methyl]-3,5-dimethoxy-4-(phenylmethoxy)benzamide hydrochloride

Description:

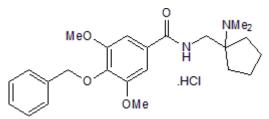
Potent and selective glycine transporter type 2 (GlyT2) inhibitor (IC₅₀ = 16 nM for hGlyT2). Displays no activity at GlyT1 or 56 other common biological targets (\geq 100 µM), in a glycine uptake assay in CHO cells. Ameliorates mechanical allodynia after partial sciatic nerve ligation injury in mice.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{24}H_{32}IN_2O_4$.HCl. $\frac{1}{4}H_2O$ Batch Molecular Weight: 453.48 Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 20 mM DMSO to 100 mM ethanol to 20 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:

Caulfield *et al* (2001) The first potent and selective inhibitors of the glycine transporter type 2. J.Med.Chem. **44** 2679. PMID: 11495577. **Morita** *et al* (2008) Spinal antiallodynia action of glycine transporter inhibitors in neuropathic pain models in mice. J.Pharmacol.Exp.Ther. **326** 633. PMID: 18448867.

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