Hello Bio, Inc.
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500
F. 609-228-4994

customercare-usa@hellobio.com

DATASHEET

SKF 89976A hydrochloride

Product overview

Name	SKF 89976A hydrochloride
Cat No	HB0976
Biological action	Inhibitor
Purity	>99%
Description	Potent, selective, competitive GAT-1 GABA uptake inhibitor

Images

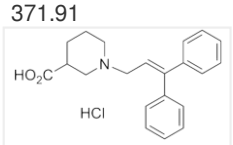
Biological Data

Biological description	Potent, selective and competitive GAT-1 GABA uptake inhibitor. Selective for GAT-1 over GAT-2, GAT-3 and BGT-1 (IC_{50} values are 0.13, 550, 944 and 7210 µM respectively). Inhibits GABA uptake (K_i = 7 µM) and transmitter-gated currents (K_i = 0.03 µM). Shows anticonvulsant actions. Blood-brain barrier permeable.

Solubility & Handling

Storage instructions	+4°C (desiccate)
Solubility overview	Soluble in water (100mM, gentle warming) or DMSO (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	1-(4,4-Diphenyl-3-butenyl)-3-piperidinecarboxylic acid hydrochloride
Molecular Weight	371.91
Chemical structure	
Molecular Formula	$C_{22}H_{25}NO_2.HCl$
CAS Number	85375-15-1
PubChem identifier	6917797

SMILES	Cl[H].OC(=O)C1CCCN(CC\C=C(\C2=CC=CC=C2)C2=CC=CC=C2)C1
InChiKey	SNGGBKYQZVAQKA-UHFFFAOYSA-N

References

Identification and selective inhibition of the channel mode of the neuronal GABA transporter 1.

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Orally active and potent inhibitors of gamma-aminobutyric acid uptake.

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Comparison of the anticonvulsant effects of two novel GABA uptake inhibitors and Ro 5-2807 in amygdaloid kindled rats.

Schwark WS *et al* (1985) Naunyn Schmiedebergs Arch Pharmacol 329(4)
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