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## DATASHEET

### SKF 89976A hydrochloride

### Product overview

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

### Images



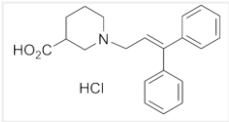
### Biological Data

<b>Biological description</b>	Potent, selective and competitive GAT-1 GABA uptake inhibitor. Selective for GAT-1 over GAT-2, GAT-3 and BGT-1 (IC <sub>50</sub> values are 0.13, 550, 944 and 7210 μM respectively). Inhibits GABA uptake (K <sub>i</sub> = 7 μM) and transmitter-gated currents (K <sub>i</sub> = 0.03 μM). Shows anticonvulsant actions. Blood-brain barrier permeable.
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### Solubility & Handling

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

### Chemical Data

<b>Chemical name</b>	1-(4,4-Diphenyl-3-butenyl)-3-piperidinecarboxylic acid hydrochloride
<b>Molecular Weight</b>	371.91
<b>Chemical structure</b>	 The chemical structure shows a piperidine ring with a carboxylic acid group (-COOH) at the 3-position and a 1-(4,4-diphenyl-3-butenyl) group at the 1-position. The structure is labeled as a hydrochloride salt (HCl).
<b>Molecular Formula</b>	C <sub>22</sub> H <sub>25</sub> NO <sub>2</sub> .HCl
<b>CAS Number</b>	85375-15-1
<b>PubChem identifier</b>	6917797

SMILES  
InChIKey

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

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## References

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

Krause S *et al* (2005) *Mol Pharmacol* 68(6)

**PubMedID** [16150932](#)

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

Ali FE *et al* (1985) *J Med Chem* 28(5)

**PubMedID** [2985785](#)

### 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)

**PubMedID** [4033806](#)

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