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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



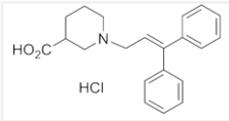
Biological Data

| | |
|-------------------------------|--|
| 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

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|-----------------------------|---|
| 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

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|---------------------------|---|
| 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
InChIKey

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

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](#)
