
Product Data Sheet

Product Name: NS3861 fumarate

Cat. No.: GC50079

Chemical Properties

Cas. No. 216853-60-0

SMILES CN1C2CCC1CC(C3=C(Br)C=CS3)=C2.OC(/C=C/C(O)=O)=OFormula C12H14BrNS.C4H4O4 M.Wt 400.29

Solubility DMSO : 100 mg/mL (249.82 mM; Need ultrasonic) Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure **Background**

$\alpha 3\beta 2$ full agonist ($EC_{50} = 1.6 \mu M$). Also $\alpha 3\beta 4$ partial agonist ($EC_{50} = 1 \mu M$). Exhibits minimal activity at $\alpha 4\beta 2$ and $\alpha 4\beta 4$. Displays high affinity for $\alpha 3\beta 4$, $\alpha 4\beta 4$, $\alpha 3\beta 2$ and $\alpha 4\beta 2$ (K_i values are 0.62, 7.8, 25 and 55 nM respectively).

Harpsøe et al (2013) Molecular determinants of subtype-selective efficacies of cytisine and the novel compound NS3861 at heteromeric nicotinic acetylcholine receptors. J.Biol.Chem. 288 2559 PMID:23229547

Caution: Product has not been fully validated for medical applications. For research use only.

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