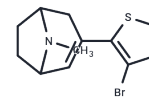
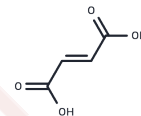


## NS3861 fumarate

## Chemical Properties

CAS No. :	216853-60-0
Formula:	C <sub>16</sub> H <sub>18</sub> BrNO <sub>4</sub> S
Molecular Weight:	400.29
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



## Biological Description

Description	NS3861 fumarate is an agonist of nicotinic acetylcholine receptors (nAChRs), acting as a partial agonist at $\alpha 3\beta 4$ nAChR and binding with high affinity to heteromeric $\alpha 3\beta 4$ nAChR, with binding $K_i$ values of 0.62, 25, 7.8, 55 nM for $\alpha 3\beta 4$ , $\alpha 3\beta 2$ , $\alpha 4\beta 4$ , $\alpha 4\beta 2$ , respectively[1].
Targets(IC50)	Others,AChR
In vitro	NS3861 fumarate demonstrates selectivity by activating $\alpha 3$ -containing nicotinic acetylcholine receptors (nAChRs) while showing no activation in $\alpha 4$ -containing receptors in HEK293 cell lines. It exhibits a clear preference, acting as a stronger agonist on $\alpha 3\beta 2$ receptors (EC 50 of 0.15 $\mu$ M) compared to $\alpha 3\beta 4$ receptors (EC 50 of 1.7 $\mu$ M) and possesses high affinity and partial agonist characteristics for $\alpha 3\beta 4$ -expressed nAChRs [2]. This compound presents an inverse $\beta$ -subunit preference, emphasizing its distinctive interaction with nAChR subtypes [1].
In vivo	NS3861 fumarate dose-dependently enhances fecal pellet expulsion in mice that received long-term morphine treatment [2].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4982 mL	12.4909 mL	24.9819 mL
5 mM	0.4996 mL	2.4982 mL	4.9964 mL
10 mM	0.2498 mL	1.2491 mL	2.4982 mL
50 mM	0.050 mL	0.2498 mL	0.4996 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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