

# Desformylflustrabromine hydrochloride

Catalog No: tcsc0029160



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 25mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

951322-11-5

**Formula:**

$C_{16}H_{22}BrClN_2$

**Pathway:**

Neuronal Signaling; Membrane Transporter/Ion Channel

**Target:**

nAChR; nAChR

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 105$  mg/mL (293.53 mM)

**Alternative Names:**

Desformylflustrabromine hydrochloride; dFBr hydrochloride

**Observed Molecular Weight:**

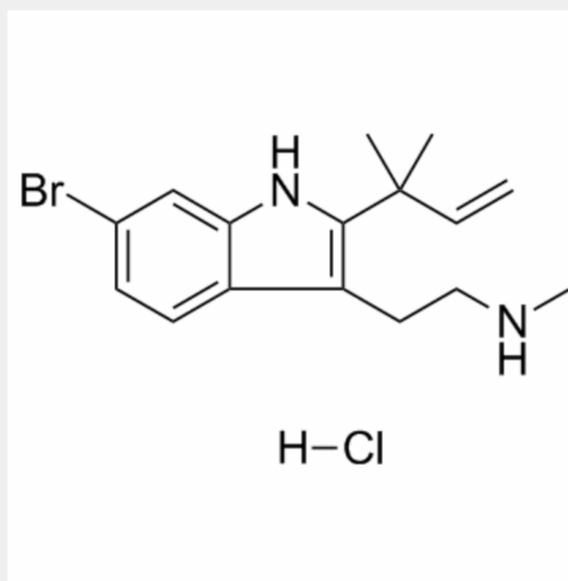
357.72

**Product Description**

Desformylflustrabromine hydrochloride is a selective agonist of  $\alpha_4\beta_2$  neuronal nicotinic acetylcholine receptor (**nAChR**) with a **pEC<sub>50</sub>** of 6.48.

IC<sub>50</sub> & Target:  $\alpha_4\beta_2$  nAChR

**In Vitro:** Desformylflustrabromine hydrochloride is a selective agonist of  $\alpha_4\beta_2$  neuronal nicotinic acetylcholine receptor (nAChR) with a pEC<sub>50</sub> of 6.48<sup>[1]</sup>. ACh-induced currents are potentiated and inhibited by Desformylflustrabromine hydrochloride in the high sensitivity (HS) and low sensitivity (LS) isoform preparations, although Desformylflustrabromine hydrochloride displays a higher potency on the LS isoform (pEC<sub>50</sub>=6.4±0.2) compare with the HS isoform (pEC<sub>50</sub>=5.6±0.2). Desformylflustrabromine hydrochloride potentiates ACh-induced responses of wild-type receptors expressed using the HS isoform preparation maximally by 350±20%, which is similar to receptors expressed via the LS isoform preparation (350±30%)<sup>[2]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!