

Nelonicline citrate Biochemical

Nelonicline citrate

CATALOG #
AAA227422

PRODUCT SYNONYMS

Nelonicline citrate; Nelonicline citrate biochemical

PRODUCT SPECIFICATIONS

Purity/Purification	98%
CAS	1026136-84-4
Solubility	<1mg/ml refers to the product slightly soluble or insoluble
In vitro	Nelonicline citrate is an agonist that binds with high affinity to alpha7 nAChRs in human brain ($K_i = 12.3$ nM) and activates currents in <i>Xenopus</i> oocytes expressing recombinant human alpha7 nAChRs (EC 50 = 2 μ M; intrinsic activity of 74% relative to acetylcholine). Nelonicline citrate does bind to alpha3beta4* nAChRs in human IMR-32 neuroblastoma cells ($K_i = 60$ nM), but has only 12% efficacy at 100,000 nM in a calcium flux assay in these cell. Like some other alpha7 nAChR agonists, Nelonicline citrate is also a 5-HT3 receptor antagonist, but it has 10-fold lower affinity for this receptor than for alpha7 nAChRs (K_i of 140 nM)[1].
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES

KCNTATCATQRLANFLVHSSNFGPILPPTN-
VGSNTY-NH₂ (Disulfide bridge:Cys₂-Cys₇)

Structure
Pramlintide, CAS 151126-32-8

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ADDITIONAL INFORMATION

Related Product Information for Nelonicline citrate biochemical	Nelonicline (ABT-126) citrate is an orally active and selective alpha7 nicotinic receptor agonist with high affinity to alpha7 nAChRs in human brain ($K_i = 12.3$ nM). Nelonicline citrate is used for the research of schizophrenia and Alzheimer's disease.
References	1. Maha S Al-Keilani, et al. Pramlintide, an antidiabetic, is antineoplastic in colorectal cancer and synergizes with conventional chemotherapy. Clin Pharmacol. 2018 Mar 5;10:23-29.

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/biochemical/nelonicline-citrate/227422>