Vesicular monoamine transporter 2 (VMAT2) (inhibitors, agonists and modulators)

Vesicular monoamine transporter 2 (VMAT2) is a protein that in humans is encoded by the SLC18A2 gene. It is an integral membrane protein that transports monoamines, particularly neurotransmitters such as dopamine, norepinephrine, serotonin, and histamine, from cellular cytosol into synaptic vesicles.
Valbenazine - CAS 1025504-45-3

Catalog Number: B0084-474971
Price: $199/10 mg

Molecular Weight: 418.57
Molecular Formula: C24H38N2O4

Description: Valbenazine is a potent and highly selective vesicular monoamine transporter 2 (VMAT2) inhibitor. It is a prodrug of the (+)-α isomer of tetrabenazine for tardive syndrome therapy. It is effective in regulating the levels of dopamine release during nerve communication, while at the same time having minimal impact on the other monoamines. It significantly improved tardive dyskinesia and was well tolerated in patients. It is an experimental drug being investigated for use in the treatment of tardive dyskinesia and Tourette syndrome. It was developed by Neurocrine Biosciences.

FFN 206 dihydrochloride - CAS 1883548-88-6

Catalog Number:

Molecular Weight: 291.17
Molecular Formula: C12H14N2O2.2HCl

Description: FFN 206 dihydrochloride is a fluorescent VMAT2 substrate (IC50 app = 1.15 μM) that detects VMAT2 activity in intact cells.

FFN 102 mesylate

Catalog Number:

Molecular Weight: 335.76
Molecular Formula: C11H11N2ClO3.CH3SO3H

Description: FFN 102 mesylate is a selective dopamine transporter (DAT) and VMAT2 substrate with no significant binding to a panel of 38 CNS receptors.

FFN 200 dihydrochloride

Catalog Number:

Molecular Weight: 277.15
Molecular Formula: C11H14Cl2N2O2

Description: FFN 200 dihydrochloride is a selective fluorescent VMAT2 substrate that traces exocytosis in dopaminergic neuronal cell culture and brain tissue.
**FFN 511 - CAS 1004548-96-2**

Catalog Number:

Molecular Weight: 284.35  
Molecular Formula: C₁₇H₂₀N₂O₂

**Description:** FFN 511 is a fluorescent false neurotransmitter (FFN) targeting neuronal vesicular monoamine transporter (VMAT) 2 to inhibit serotonin binding to VMAT2 (IC₅₀ = 1 μM).