



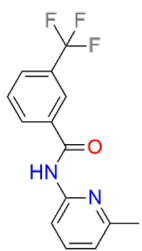
Library of neurodegenerative disease related compounds includes over 1,500 bioactive compounds targeting 164 proteins from the KEGG database's Neurodegeneration pathways. This diverse selection covers:

- **Protein Misfolding:** Dysfunction in the ubiquitin-proteasome and autophagy-lysosome systems leads to the accumulation of misfolded proteins like amyloid-beta and alpha-synuclein.
- **Oxidative Stress:** Excessive oxidative stress damages cellular components, contributing to neuronal death in diseases like ALS and Huntington's disease.
- **Endoplasmic Reticulum Stress:** Accumulation of misfolded proteins in the ER disrupts cellular function and promotes apoptosis, seen in Alzheimer's and Parkinson's diseases.
- **Mitochondrial Dysfunction:** Impaired mitochondrial function affects ATP production and increases reactive oxygen species, playing a critical role in neurodegenerative conditions.
- **Disruptions of Axonal Transport:** Impaired axonal transport affects the movement of organelles and proteins along axons, leading to neuronal dysfunction and death, observed in ALS and Huntington's disease.
- **Neuroinflammation:** Chronic inflammation in the nervous system contributes to the progression of neurodegenerative diseases.

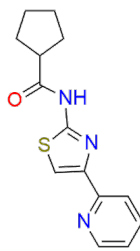
Related terms: Alzheimer's disease, Parkinson's disease, prions, ALS, motor neuron disease, Huntington's disease, spinal muscular atrophy, and spinocerebellar ataxia



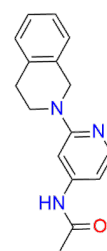
Highlights



EBC-07459
Exhibits binding affinity to metabotropic glutamate receptor 5.



EBC-07179
An adenosine receptor $\alpha 1$ inhibitor



EBC-303124
An antagonist of GluN2B with $K_i = 380$ nM.

Library Composition

Name	Occurrence in the library, times
Genetic information processing	78
Signaling and cellular processes	60
Protein-serine/threonine kinases	29
Membrane trafficking	28
Peptidases and inhibitors	21
Chromosome and associated proteins	17
Exosomal proteins	16
Mitochondrial biogenesis	14
Ion channels	14
Endocytosis	14
Proteasome	13
Autophagy	12