

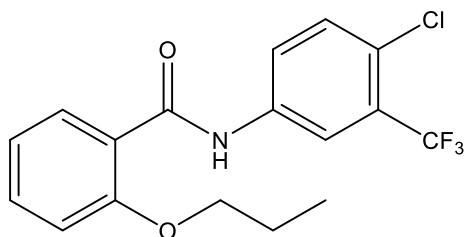
Catalog # 10-5669

TTK21

CAS# 709676-56-2

N-[4-Chloro-3-(trifluoromethyl)phenyl]-2-propoxybenzamide

Lot # X109917



A novel activator of CBP/p300 acetyl transferases.¹ When TTK21 is conjugated to glucose-based carbon nanospheres (CSP) it is nontoxic and is BBB permeable. CSP-TTK21, upon intraperitoneal administration to mice, acetylated histones in the hippocampus and frontal cortex and increased BDNF levels.¹ It reinstated plasticity and memory in a tauopathy mouse model², ameliorated A β -impaired long term potentiation³ and promoted axon growth, sprouting and synaptic plasticity in chronic experimental spinal cord injury⁴.

- 1) Chatterjee *et al.* (2013) *A novel activator of CBP/p300 acetyltransferases promotes neurogenesis and extends memory duration in adult mice*; J. Neurosci. **33** 10698
- 2) Chatterjee *et al.* (2018) *Reinstating plasticity and memory in a tauopathy mouse model with an acetyltransferase activator*; EMBO Mol. Med. **103** e8587
- 3) Singh *et al.* (2022) *Glucose derived carbon nanosphere (CSP) conjugated TTK21, an activator of the histone acetyltransferases CBP/p300, ameliorates amyloid-beta 1-42 induced deficits in plasticity and associativity in hippocampal CA1 pyramidal neurons*; Aging Cell **21** e13675
- 4) Muller *et al.* (2022) *CBP/p300 activation promotes axon growth, sprouting, and synaptic plasticity in chronic experimental spinal cord injury with severe disability*; PLoS Biol. **20** e3001310

PHYSICAL DATA

Molecular Weight:	357.76
Molecular Formula:	C ₁₇ H ₁₅ ClF ₃ NO ₂
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (50 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 1 month.

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