

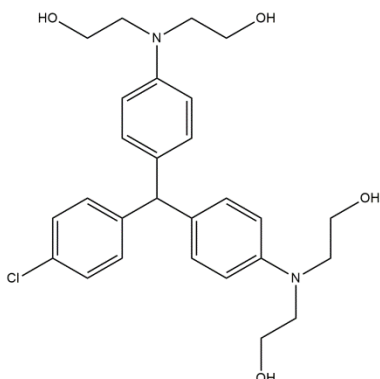
LM22B-10

04/20

ALTERNATE NAMES: 2-[4-[[4-[bis(2-hydroxyethyl)amino]phenyl]-(4-chlorophenyl)methyl]-N-(2-hydroxyethyl)anilino]ethanol; 4,4'-(4-Chlorobenzylidene)bis[N,N-bis(2-hydroxyethyl)aniline]; 2,2',2'',2'''-[[[(4-chlorophenyl)methylene]bis(4,1-phenylenitrilo)]tetrakis-ethanol; 2,2',2'',2'''-(((4-chlorophenyl)methylene)bis(4,1-phenylene))bis(azanetriyl))tetraethanol

CATALOG #: B3018-5 5 mg
B3018-25 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₂₇H₃₃ClN₂O₄

MOLECULAR WEIGHT: 485.0

CAS NUMBER: 342777-54-2

APPEARANCE: Pale grey solid

PURITY: >98%

SOLUBILITY: ~30 mg/ml in DMSO

DESCRIPTION: LM22B-10 is an activator of Tropomyosin-receptor kinase neurotrophin receptors TrkB and TrkC. It binds to TrkB and TrkC in a dose-dependent manner at concentrations of 250 nM-2000 nM. It increases cell survival and accelerates neurite outgrowth. LM22B-10 supports substantial early neurite outgrowth in the presence of inhibiting glycoproteins. In aged mice, it (50 mg/kg/day i.p. in combination with an intranasal dose of 5 mg/kg/day for 30 days) activates hippocampal and striatal TrkB and TrkC, their downstream signaling and increases hippocampal dendritic spine density.

STORAGE TEMPERATURE: -20°C. Store in the dark. Product is light sensitive. Protect from air. Store under desiccating conditions.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

REFERENCES: Yang, T., Massa, S.M., Tran, K.C., et al. A small molecule TrkB/TrkC neurotrophin receptor co-activator with distinctive effects on neuronal survival and process outgrowth. *Neuropharmacology* 110(Pt A), 343-361 (2016).

RELATED PRODUCTS:

GNF-5837 (Cat. No. B1339)
 LOXO-101 sulfate (Cat. No. B2545)
 LOXO-195 (Cat. No. B2226)
 CH7057288 (Cat. No. B2514)
 GW-441756 (Cat. No. B1147)

DISCLAIMER: *FOR RESEARCH USE ONLY! Not to be used on humans.*