SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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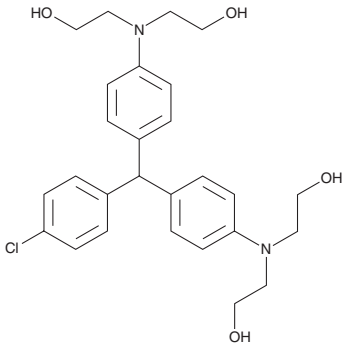
PRODUCT INFORMATION

LM22B-10

Item No. 29037



CAS Registry No.:	342777-54-2
Formal Name:	2,2',2'',2'''-[[(4-chlorophenyl)methylene] *bis*(4,1-phenylenenitrilo)]tetrakis-ethanol
MF:	$C_{27}H_{33}ClN_2O_4$
FW:	485.0
Purity:	≥98%
UV/Vis.:	λ_{max}: 268 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

LM22B-10 is supplied as a crystalline solid. A stock solution may be made by dissolving the LM22B-10 in the solvent of choice, which should be purged with an inert gas. LM22B-10 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide. The solubility of LM22B-10 in these solvents is approximately 30 mg/ml.

Description

LM22B-10 is an activator of neurotrophic tyrosine kinase receptor 2 (TrkB) and -3 (TrkC).[1] It is selective for TrkB and TrkC over TrkA in NIH3T3 cells but does inhibit the serotonin (5-HT) receptor subtype 5-HT_{5A} and the dopamine transporter by greater than 50% in a panel of 57 G protein-coupled peptide and nonpeptide receptors at 10 µM. LM22B-10 increases survival, neurite length, and dendritic spine density of primary mouse embryonic hippocampal neurons when used at a concentration of 1 µM. LM22B-10 (50 mg/kg i.p. in combination with an intranasal dose of 5 mg/kg per day) also increases hippocampal neuron dendritic spine density in aged mice.

Reference

1. 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).

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