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DATASHEET

Fluorescently labeled Muscimol TMR-X conjugate

Product overview

Name Fluorescently labeled Muscimol TMR-X conjugate

Cat No HB6110

Biological description This fluorescently labelled muscimol conjugate exhibits agonist activity GABA_Δ and GABA_C receptors.

The compound is active *in vivo* and shows no difference to muscimol on long-term contextual fear. The fluorescently labeled Muscimol TMR-X conjugate can be considered to be representative for the

diffusion of muscimol after dorsohippocampal administration.

The compound can be used for visulazing the spatial gradient of reversible brain inactivations.

Alternative names Muscimol-bodipy, Muscimol-BODIPY® TMR-X conjugate (TM of Molecular Probes)

Biological action Agonist

Purity >98%

Description Fluorescently labeled Muscimol

Solubility & Handling

Storage instructions
Solubility overview
-20 °C (desiccate, protect from light)
Soluble in DMSO and in MeOH

Storage of solutions Prepare and use solutions on the same day if possible. Store solutions at -20 °C for up to one month if

storage is required. Equilibrate to RT and ensure the solution is precipitate free before use.

Shipping Conditions

Important

Stable for ambient temperature shipping. Follow storage instructions on receipt.

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not

for human or veterinary use.

Chemical Data

Chemical name 5,5-difluoro-2-(3-((6-(((3-hydroxyisoxazol-5-yl)methyl)amino)-6-oxohexyl)amino)-3-oxopropyl)-7-(4-met

hoxyphenyl)-1,3-dimethyl-5H-dipyrrolo[1,2-c:2',1'-f][1,3,2]diazaborinin-4-ium-5-uide

Molecular Weight 607.46

 $\label{eq:molecular Formula} \qquad \qquad C_{31}H_{36}BF_2N_5O_5$

Excitation 544 **Emission** 570

References

GABA(A) receptor activation in the CA1 area of the dorsal hippocampus impairs consolidation of conditioned contextual fear in C57BL/6J mice.

Misane et al (2013) Behav Brain Res. 238 **PubMedID**23098796

Imaging the spread of reversible brain inactivations using fluorescent muscimol.

Allen (2008) J Neurosci Methods 171(1) **PubMedID**18377997

Activation of membrane receptors by a neurotransmitter conjugate designed for surface attachment.

Vu et al (2005) Biomaterials 26(14)

PubMedID 15576163