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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	<p>This fluorescently labeled muscimol conjugate exhibits agonist activity GABA_A and GABA_C receptors.</p> <p>The compound is active <i>in vivo</i> 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.</p> <p>The compound can be used for visualizing the spatial gradient of reversible brain inactivations.</p>
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	-20 °C (desiccate, protect from light)
Solubility overview	Soluble in DMSO and in MeOH
Important	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-methoxyphenyl)-1,3-dimethyl-5H-dipyrrolo[1,2-c:2',1'-f][1,3,2]diazaborinin-4-ium-5-uide
Molecular Weight	607.46
Molecular Formula	C ₃₁ H ₃₆ BF ₂ N ₅ O 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.

