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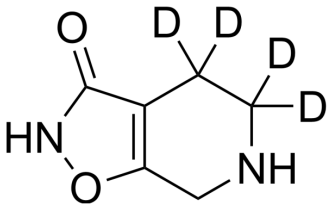
THIP-d_4

Cat. No.:	HY-10232S
CAS No.:	2748778-97-2
Molecular Formula:	$C_6H_4D_4N_2O_2$
Molecular Weight:	144.16
Target:	Isotope-Labeled Compounds; GABA Receptor
Pathway:	Others; Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	THIP-d4 (Gaboxadol-d4) is the deuterium labeled THIP (HY-10232). THIP (Gaboxadol) is a selective extrasynaptic GABAA receptors (eGABARs) agonist (with blood-brain barrier permeability), shows an EC_{50} value of 13 μM for δ-GABAAR. THIP induces strong tense GABAA-mediated currents in layer 2/3 neurons, but shows on effect on miniature IPSCs. THIP can be used in studies of sleep disorders[1][2][3].

REFERENCES

[1]. Drasbek KR, et al. THIP, a hypnotic and antinociceptive drug, enhances an extrasynaptic GABAA receptor-mediated conductance in mouse neocortex. Cereb Cortex. 2006 Aug;16(8):1134-41.

[2]. Larsen M, et al. 5-Hydroxy-L-tryptophan alters gaboxadol pharmacokinetics in rats: involvement of PAT1 and rOat1 in gaboxadol absorption and elimination. Eur J Pharm Sci. 2010 Jan 31;39(1-3):68-75.

[3]. Hoestgaard-Jensen K, et al. Probing α4βδ GABAA receptor heterogeneity: differential regional effects of a functionally selective α4β1δ/α4β3δ receptor agonist on tonic and phasic inhibition in rat brain. J Neurosci. 2014 Dec 3;34(49):16256-72.

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