

Produktinformation



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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien T. +43(0)1 489 3961-0 F. +43(0)1 489 3961-7 <u>mail@szabo-scandic.com</u> www.szabo-scandic.com

PRODUCT INFORMATION



Paliperidone-d₄

Item No. 28484

CAS Registry No.:	1020719-55-4	
Formal Name:	3-[2-[4-(6-fluoro-1,2-benzisoxazol-3-yl)-	
	1-piperidinyl]ethyl-1,1,2,2-d ₄]-6,7,8,9-	-0
	tetrahydro-9-hydroxy-2-methyl-4H-	N C
	pyrido[1,2-a]pyrimidin-4-one	
Synonym:	9-hydroxy Risperidone-d ₄	
MF:		
	$C_{23}H_{23}D_4FN_4O_3$	
FW:	430.5	
Chemical Purity:	≥95% (Paliperidone)	
Deuterium		\sim N \sim
Incorporation:	≥99% deuterated forms (d ₁ -d ₄); ≤1% d ₀	ОН
Supplied as:	A solid	
Storage:	-20°C	
Stability:	≥2 years	
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Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Paliperidone- d_{4} is intended for use as an internal standard for the quantification of paliperidone (Item No. 15556) by GC- or LC-MS. The accuracy of the sample weight in this vial is between 5% over and 2% under the amount shown on the vial. If better precision is required, the deuterated standard should be quantitated against a more precisely weighed unlabeled standard by constructing a standard curve of peak intensity ratios (deuterated versus unlabeled).

Paliperidone-d₄ is supplied as a solid. A stock solution may be made by dissolving the paliperidone-d₄ in the solvent of choice, which should be purged with an inert gas. Paliperidone- d_4 is slightly soluble in chloroform, DMSO, and methanol.

Description

Paliperidone is an atypical antipsychotic.¹ It is an inverse agonist of dopamine D₂ and D₃ receptors $(IC_{50}s = 1 \text{ and } 0.9 \text{ nM}, \text{ respectively})$, as well as an antagonist at these receptors (K₁s = 0.4 and 0.1 nM, respectively).² Paliperidone also binds to α_1 - and α_2 -adrenergic receptors, histamine H₁ receptors, and the serotonin (5-HT) receptor subtypes 5-HT_{1A}, 5-HT_{1D}, 5-HT_{2A}, and 5-HT_{2C} (K_ds = 10.1, 80, 3.4, 480, 19, 1.21, and 48 nM, respectively).³ It improves spatial working memory in a T-maze alternation task in a maternal immune activation mouse model of schizophrenia when administered at a dose of 0.05 mg/kg per day.¹ Paliperidone is also an active metabolite of the atypical antipsychotic risperidone (Item No. 13629).³ Formulations containing paliperidone have been used in the treatment of schizophrenia and schizoaffective disorder.

References

- 1. MacDowell, K.S., Munarriz-Cuezva, E., Caso, J.R., et al. Neuropharmacology 116, 196-207 (2017).
- 2. Burstein, E.S., Ma, J., Wong, S., et al. J. Pharmacol. Exp. Ther. 315(3), 1278-1287 (2005).
- 3. Richelson, E. and Souder, T. Life Sci. 68(1), 29-39 (2000).

WARNING THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897 [734] 971-3335 FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.CAYMANCHEM.COM