# **PRODUCT** INFORMATION



## Diazepam-d<sub>5</sub>

Item No. 18308

CAS Registry No.:	65854-76-4	
Formal Name:	7-chloro-1,3-dihydro-1-methyl-	
	5-(phenyl-2,3,4,5,6-d <sub>5</sub> )-2H-1,4-	
	benzodiazepin-2-one	
MF:	$C_{16}H_8D_5CIN_2O$	D
FW:	289.8	Ĭ / IĬ
Purity:	≥98%	
Supplied as:	A neat solid	D' `D
Storage:	-20°C	D
Stability:	≥5 years	
Information represent	s the product specifications. Batch specific ana	lytical results are provided on each certificate of analysis.

## Description

Diazepam-d<sub> $\epsilon$ </sub> (Item No. 18308) is an analytical reference material intended for use as an internal standard for the quantification of diazepam (Item Nos. ISO60177 | 15887) 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).

Diazepam is categorized as a benzodiazepine.<sup>1,2</sup> Diazepam- $d_5$  is regulated as a Schedule IV compound in the United States. This product is intended for research and forensic applications.

This product is qualified as a Reference Material that has been manufactured and tested to ISO/IEC 17025 and ISO 17034 international standards.

## References

- 1. Rickels, K., Csanalosi, I., Greisman, P., et al. Ketazolam and diazepam in anxiety: A controlled study. J. Clin. Pharmacol. 20(10), 581-589 (1980).
- 2. Birnir, B., Eghbali, M., Everitt, A.B., et al. Bicuculline, pentobarbital and diazepam modulate spontaneous GABAA channels in rat hippocampal neurons. Br. J. Pharmacol. 131(4), 695-704 (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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