Certificate of Analysis

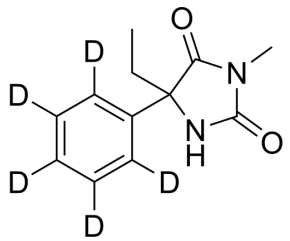
Mephenytoin-d_5

Cat. No.:	HY-B1184S1
CAS No.:	1185032-66-9
Batch No.:	330688
Chemical Name:	2,4-Imidazolidinedione, 5-ethyl-3-methyl-5-phenyl-d5

PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:	$C_{12}H_9D_5N_2O_2$		
Molecular Weight:	**223.28**		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

Chemical Structure:



ANALYTICAL DATA

Appearance:	White to off-white (Solid)
^{1}H NMR Spectrum:	Consistent with structure
LCMS:	Consistent with structure
Purity (HPLC):	**98.06%**
Isotopic Enrichment:	98.4%
Additional Information:	d0=1.4%, d1=0.3%, d5=98.3%
Conclusion:	The product has been tested and complies with the given specifications.

Caution: Product has not been fully validated for medical applications. For research use only.

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