



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

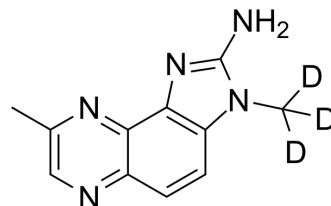
mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

MelQx-d3

Cat. No.:	HY-W355129S		
CAS No.:	122457-31-2		
Molecular Formula:	C ₁₁ H ₈ D ₃ N ₅		
Molecular Weight:	216.26		
Target:	Isotope-Labeled Compounds		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	MelQx-d3 is the deuterium labeled MelQx (HY-W355129) ^[1] . MelQx is a heterocyclic amine (HAs) compound and a dietary aromatic amine, which can bind covalently to hemoglobin. MelQx is a mutagenic compound that induces liver tumors ^[2] .
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs ^[1] . MelQx (0.47 mM; 0-120 min) binds covalently to mouse hemoglobin and is activated by mouse microsomes to metabolites ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	MelQx (2.0-200 mg/kg; i.p.; male Swiss Webster mice) is in the covalent binding to hemoglobin in a dose-dependent manner ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Lynch AM, et, al. The measurement of MelQx adducts with mouse haemoglobin in vitro and in vivo: implications for human dosimetry. *Carcinogenesis*. 1991 Jun;12(6):1067-72.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA