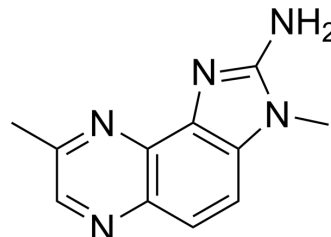


## MelQx

Cat. No.:	HY-W355129
CAS No.:	77500-04-0
Molecular Formula:	C <sub>11</sub> H <sub>11</sub> N <sub>5</sub>
Molecular Weight:	213.24
Target:	Others
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 0.71 mg/mL (3.33 mM; ultrasonic and adjust pH to 5 with HCl)

Concentration	Mass			
	1 mg	5 mg	10 mg	
1 mM	4.6896 mL	23.4478 mL	46.8955 mL	
5 mM	---	---	---	
10 mM	---	---	---	

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

MelQx, a dietary aromatic amine, is mutagenic compound could be isolated from present in fried beef and beef extracts. MelQx binds covalently to hemoglobin. MelQx induces liver tumors<sup>[1][2]</sup>.

#### In Vitro

MelQx (0.47 mM; 0-120 min) binds covalently to mouse hemoglobin and is activated by mouse microsomes to metabolites<sup>[1]</sup>. 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<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model: Male Swiss Webster mice<sup>[1]</sup>

Dosage: 2.0-200 mg/kg

Administration: Intraperitoneal injection

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Result:	Increased the covalent binding to hemoglobin in a dose-dependent manner.
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## REFERENCES

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[1]. Lynch AM, et, al. The measurement of MeIQx adducts with mouse haemoglobin in vitro and in vivo: implications for human dosimetry. *Carcinogenesis*. 1991 Jun;12(6):1067-72.

[2]. Ohgaki H, et, al. Carcinogenicity in mice of a mutagenic compound, 2-amino-3,8-dimethylimidazo[4,5-f]quinoxaline (MeIQx) from cooked foods. 1987 May;8(5):665-8.

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

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