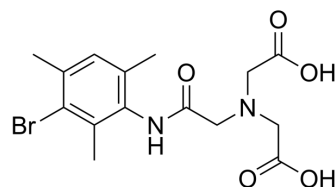


Mebrofenin

Cat. No.:	HY-B1684		
CAS No.:	78266-06-5		
Molecular Formula:	C ₁₅ H ₁₉ BrN ₂ O ₅		
Molecular Weight:	387.23		
Target:	Biochemical Assay Reagents		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (645.61 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.5824 mL	12.9122 mL	25.8244 mL
		5 mM	0.5165 mL	2.5824 mL	5.1649 mL
10 mM		0.2582 mL	1.2912 mL	2.5824 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.37 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (5.37 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.37 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Mebrofenin (SQ 26962) is a type of iminodiacetic acid (IDA). Mebrofenin is available as a ready to use the kit for radio-labeling with Tc-99m. Tc-99m Mebrofenin, a diagnostic agent, is used for hepatobiliary imaging. Tc-99m Mebrofenin is the radiopharmaceutical of choice for the evaluation of hepatic function ^{[1][2]} .
In Vitro	Tc-99m Mebrofenin is a ^{99m} Tc-labeled iminodiacetic (IDA) derivate, originally used for the diagnosis of a multitude of biliary diseases and, since recently, for the assessment of liver function ^[3] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Matthews R, et al. Tc-99m mebrofenin hepatobiliary scan in obstructive hepatobiliary disease: determining causes with early and late delayed imaging. World J Nucl Med. 2013 May;12(2):54-6.
- [2]. Morandi F, et al. Transsplenic portal scintigraphy using 99mTc-mebrofenin in normal dogs. Vet Radiol Ultrasound. 2007 May-Jun;48(3):286-91.
- [3]. de Graaf W, et al. Transporters involved in the hepatic uptake of (99m)Tc-mebrofenin and indocyanine green. J Hepatol. 2011 Apr;54(4):738-45.
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Caution: Product has not been fully validated for medical applications. For research use only.

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