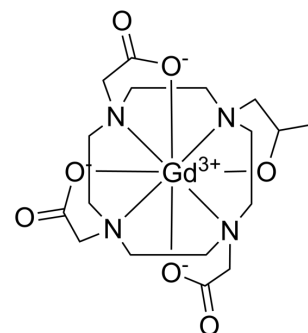


## Gadoteridol

<b>Cat. No.:</b>	HY-B0933		
<b>CAS No.:</b>	120066-54-8		
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>28</sub> GdN <sub>4</sub> O <sub>7</sub>		
<b>Molecular Weight:</b>	557.68		
<b>Target:</b>	Biochemical Assay Reagents		
<b>Pathway:</b>	Others		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : ≥ 280 mg/mL (502.08 mM)  
 DMSO : < 1 mg/mL (ultrasonic) (insoluble or slightly soluble)  
 \* "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.7931 mL	8.9657 mL	17.9314 mL
	5 mM	0.3586 mL	1.7931 mL	3.5863 mL
	10 mM	0.1793 mL	0.8966 mL	1.7931 mL

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

#### In Vivo

1. Add each solvent one by one: PBS  
 Solubility: 100 mg/mL (179.31 mM); Clear solution; Need ultrasonic

### BIOLOGICAL ACTIVITY

#### Description

Gadoteridol is a gadolinium-based magnetic resonance imaging (MRI) contrast agent, used in the imaging of the central nervous system<sup>[1]</sup>.

#### In Vivo

Gadoteridol (1 mM; intracerebral injection; once) enhances distribution of rAAV1 in the rat hippocampus<sup>[1]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Sprague-Dawley rats (3 -5 months) <sup>[1]</sup>
Dosage:	1 mM/rat

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Administration:	Intracerebral injection, once, co-infused with rAAV1 or AAV5
Result:	Increased the transduction efficiency of AAV1 but not AAV5.

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## CUSTOMER VALIDATION

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- Neurosurgery. 2020 Jul 16;87(6):E680-E688.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

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[1]. Hullinger R, et al. The MRI contrast agent gadoteridol enhances distribution of rAAV1 in the rat hippocampus. Gene Ther. 2013 Dec;20(12):1172-7.

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

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