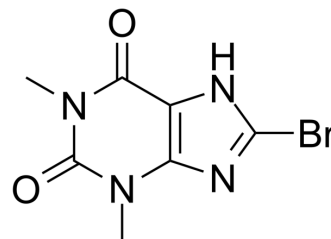


## 8-Bromotheophylline

<b>Cat. No.:</b>	HY-W088152
<b>CAS No.:</b>	10381-75-6
<b>Molecular Formula:</b>	C <sub>7</sub> H <sub>7</sub> BrN <sub>4</sub> O <sub>2</sub>
<b>Molecular Weight:</b>	259.06
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	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

DMSO : 25 mg/mL (96.50 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.8601 mL	19.3005 mL	38.6011 mL
	5 mM	0.7720 mL	3.8601 mL	7.7202 mL
	10 mM	0.3860 mL	1.9301 mL	3.8601 mL

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

### BIOLOGICAL ACTIVITY

#### Description

8-Bromotheophylline can be used for the synthesis of the Oxazolo[2,3-f]purinediones, which are evaluated for their affinity at adenosine A<sub>1</sub> and A<sub>2A</sub> receptors<sup>[1]</sup>.

### REFERENCES

[1]. Drabczyńska A, et al. Tricyclic oxazolo[2,3-f]purinediones: potency as adenosine receptor ligands and anticonvulsants. *Bioorg Med Chem.* 2004;12(18):4895-4908.

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

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