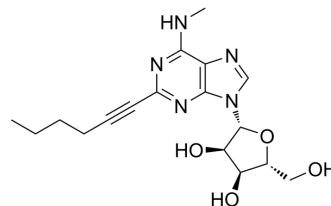


## HEMADO

<b>Cat. No.:</b>	HY-103187		
<b>CAS No.:</b>	403842-38-6		
<b>Molecular Formula:</b>	C <sub>17</sub> H <sub>23</sub> N <sub>5</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	361.4		
<b>Target:</b>	Adenosine Receptor		
<b>Pathway:</b>	GPCR/G Protein		
<b>Storage:</b>	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



## BIOLOGICAL ACTIVITY

<b>Description</b>	HEMADO is a potent and selective adenosine A <sub>3</sub> receptor agonist with a K <sub>i</sub> of 1.1 nM at the human A <sub>3</sub> subtype <sup>[1]</sup> . HEMADO is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.
<b>IC<sub>50</sub> &amp; Target</b>	Ki: 1.1 nM (human A <sub>3</sub> subtype) <sup>[1]</sup>
<b>In Vitro</b>	HEMADO (compound 8a) has K <sub>i</sub> s of 327 nM and 1230 nM for A <sub>1</sub> and A <sub>2A</sub> and a EC <sub>50</sub> of 100 μM for A <sub>2B</sub> receptors <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

- [1]. Klotz KN, et al. [<sup>3</sup>H]HEMADO— a novel tritiated agonist selective for the human adenosine A<sub>3</sub> receptor. *Eur J Pharmacol.* 2007 Feb 5;556(1-3):14-8. Epub 2006 Oct 27.
- [2]. Volpini R, et al. N(6)-alkyl-2-alkynyl derivatives of adenosine as potent and selective agonists at the human adenosine A(3) receptor and a starting point for searching A(2B) ligands. *J Med Chem.* 2002 Jul 18;45(15):3271-9.

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

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