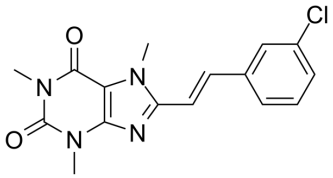
(E)-8-(3-Chlorostyryl)caffeine

Cat. No.:	HY-103164
CAS No.:	147700-11-6
Molecular Formula:	$C_{16}H_{15}ClN_4O_2$
Molecular Weight:	330.77
Target:	Adenosine Receptor; Monoamine Oxidase
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	(E)-8-(3-Chlorostyryl)caffeine is a selective adenosine A_{2A} receptor antagonist. (E)-8-(3-Chlorostyryl)caffeine inhibits monoamine oxidase B (MAO-B) with a K_i value of 70 nM by a pathway that is independent of its actions on the A_{2A} receptor. (E)-8-(3-Chlorostyryl)caffeine has the potential for Parkinson's disease research[1].	
IC_{50} & Target	A2AR	MAO-B 70 nM (Ki)

REFERENCES

[1]. Nevil Vlok, et al. Inhibition of monoamine oxidase B by analogues of the adenosine A2A receptor antagonist (E)-8-(3-chlorostyryl)caffeine (CSC). Bioorg Med Chem. 2006 May 15;14(10):3512-21.

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