**Product Information**

**Iso-Olomoucine**  
*Item No. 13325*

**CAS Registry No.:** 101622-50-8  
**Formal Name:** 2-[[7-methyl-6-[(phenylmethyl)amino]-7H-purin-2-yl]amino]-ethanol  
**MF:** C₁₅H₁₈N₆O  
**FW:** 298.3  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis:** λₒ max ≈ 210, 304 nm

**Laboratory Procedures**

For long term storage, we suggest that *iso*-olomoucine be stored as supplied at -20°C. It should be stable for at least two years.

* Iso-olomoucine is supplied as a crystalline solid. A stock solution may be made by dissolving the *iso*-olomoucine in the solvent of choice. *Iso*-olomoucine is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of *iso*-olomoucine in ethanol is approximately 0.3 mg/ml and approximately 15 mg/ml in DMSO and DMF.

* Iso-olomoucine is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, *iso*-olomoucine should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. *Iso*-olomoucine has a solubility of approximately 0.1 mg/ml in a 1:10 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Cyclin-dependent kinases (CDKs) are key regulators of cell cycle progression whose function/dysfunction has been implicated in cancer, a subset of human neurodegenerative diseases, and the reward response of addictive drugs via alteration of postsynaptic dopamine receptor signaling. *Iso*-olomoucine is an inactive stereoisomer of the Cdk5 inhibitor olomoucine. Because *iso*-olomoucine lacks activity at Cdk5 (IC₅₀ ≥ 1 mM)¹, it may have utility as a control compound for determining Cdk5 specificity.²⁻³ In a Cdk5-independent manner, *iso*-olomoucine has been shown to rapidly inhibit dopamine transporter activity in rat dorsal striatal synaptosomes with a potency similar to that of olomoucine (IC₅₀ ~37 μM).²

**References**


**Related Products**

For a list of related products please visit: [www.caymanchem.com/catalog/13325](http://www.caymanchem.com/catalog/13325)

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**SAFETY DATA**

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

**WARRANTY AND LIMITATION OF REMEDY**

Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, salability, and merchantability, which extends beyond the description of the chemicals herewith. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery.

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have any obligation or liability, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees.

Buyer’s exclusive remedy and Cayman’s sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman’s option, the replacement, at no cost to Buyer, of all material that does not meet our specifications.

Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.