



LKT Laboratories, Inc.

MS023

Phone: 888-558-5227

651-644-8424

Fax: 888-558-7329

Email: getinfo@lktlabs.com

Web: lktlabs.com

Product Information

Product ID M721001

CAS No. 1831110-54-3

Chemical Name

Synonym

Formula $C_{17}H_{25}N_3O$

Formula Wt. 287.4

Melting Point

Purity $\geq 98\%$

Solubility

Store Temp -20°C

Ship Temp Ambient

Description MS023 is a potent, selective, and cell-permeable inhibitor of Type I protein arginine methyltransferases (PRMTs 1, 2, 3, 4/CARM1, 6, and 8), which catalyze asymmetric dimethylarginine (ADMA) modifications on substrate proteins. MS023 competitively inhibits S-adenosylmethionine (SAM) cofactor binding across Type I PRMTs with selectivity over Type II PRMTs (PRMT5/7). It is used to study the role of arginine methylation in RNA splicing, transcriptional regulation, DNA damage response, and cancer metabolism.

Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
M721001	5 mg	\$125.00
M721001	25 mg	\$320.00
M721001	100 mg	\$750.00

- References**
1. Eram MS, Shen Y, Szewczyk M, et al. A Potent, Selective, and Cell-Active Inhibitor of Human Type I Protein Arginine Methyltransferases. *ACS Chem Biol.* 2016;11(3):772-81. PMID: 26667012.
 2. Bedford MT, Clarke SG. Protein arginine methylation in mammals: who, what, and why. *Mol Cell.* 2009;33(1):1-13. PMID: 19150423.
 3. Yang Y, Bedford MT. Protein arginine methyltransferases and cancer. *Nat Rev Cancer.* 2013;13(1):37-50. PMID: 23237912.
 4. Stopa N, Krebs JE, Bhatt DL. The PRMT5 arginine methyltransferase: many roles in development, cancer and beyond. *Cell Mol Life Sci.* 2015;72(11):2041-59. PMID: 25662273.
 5. Guccione E, Richard S. The regulation, functions and clinical relevance of arginine methylation. *Nat Rev Mol Cell Biol.* 2019;20(10):642-657. PMID: 31350521.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.