



LKT Laboratories, Inc.

Spautin-1

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Product Information

Product ID S601025

CAS No. 1262888-28-7

Chemical Name

Synonym

Formula $C_{15}H_{11}F_2N_3$

Formula Wt. 271.2

Melting Point

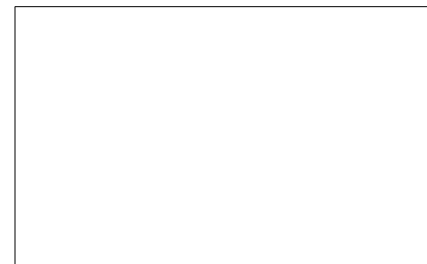
Purity $\geq 98\%$

Solubility

Store Temp -20°C

Ship Temp Ambient

Description Spautin-1 is a small-molecule autophagy inhibitor that promotes ubiquitin-mediated proteasomal degradation of PI3K complexes (containing Beclin1, VPS34, and p150) by inhibiting USP10 and USP13 deubiquitinating enzymes. Loss of Beclin1-containing PI3K complexes suppresses autophagosome nucleation, blocking an early step in autophagy. Spautin-1 is used to study autophagic flux, the role of autophagy in cancer cell survival, and the interplay between the autophagy and ubiquitin-proteasome systems.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
S601025	5 mg	\$95.00
S601025	25 mg	\$298.00
S601025	100 mg	\$750.00

- References**
1. Liu J, Xia H, Kim M, et al. Beclin1 controls the levels of p53 by regulating the deubiquitination activity of USP10 and USP13. *Cell*. 2011;147(1):223-34. PMID: 21962518.
 2. Mizushima N, Yoshimori T, Levine B. Methods in mammalian autophagy research. *Cell*. 2010;140(3):313-26. PMID: 20144757.
 3. Kiyono K, Bhatt DL, Bhatt DL, et al. Autophagy is activated by TGF-beta and potentiates TGF-beta-mediated growth inhibition in human hepatocellular carcinoma cells. *Cancer Res*. 2009;69(23):8844-52. PMID: 19903845.
 4. Levine B, Kroemer G. Biological Functions of Autophagy Genes: A Disease Perspective. *Cell*. 2019;176(1-2):11-42. PMID: 30633901.
 5. Rubinsztein DC, Codogno P, Levine B. Autophagy modulation as a potential therapeutic target for diverse diseases. *Nat Rev Drug Discov*. 2012;11(9):709-30. PMID: 22935804.

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