LKT Laboratories, Inc.

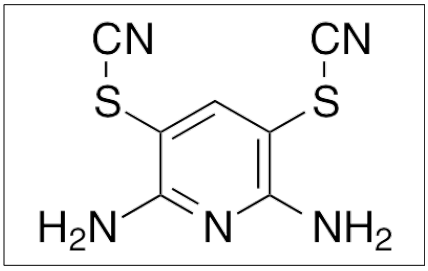
PR-619

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID P7000
CAS No. 2645-32-1
Chemical Name

Synonym



Formula $C_7H_5N_5S_2$
Formula Wt. 223.27
Melting Point
Purity ≥98%
Solubility

DMSO	45 mg/mL
Water	Insoluble
Ethanol	Insoluble

Bulk quanitites available upon request

Product ID	Size
P7000	1 mg
P7000	5 mg
P7000	25 mg

Store Temp -20˚C
Ship Temp Ambient

Description PR-619 inhibits deubiquitinating enzymes (DUBs) and is used to study the role of ubiquitination in neurodegenerative diseases. This compound displays anti-inflammatory activity, inhibiting secretion of IL-1ß in macrophages. In oligodendrocytes, PR-619 activates autophagy and aggrosome formation, stabilizes the microtubule network, and induces stress responses.

References

Zhou Y, Zhao D, Yue R, et al. Inflammasomes-dependent regulation of IL-1ß secretion induced by the virulent Mycobacterium bovis Beijing strain in THP-1 macrophages. Antonie Van Leeuwenhoek. 2015 Jul;108(1):163-71. PMID: 25980833.

Seiberlich V, Borchert J, Zhukareva V, et al. Inhibition of protein deubiquitination by PR-619 activates the autophagic pathway in OLN-t40 oligodendroglial cells. Cell Biochem Biophys. 2013 Sep;67(1):149-60. PMID: 23686611.

Seiberlich V, Goldbaum O, Zhukareva V, et al. The small molecule inhibitor PR-619 of deubiquitinating enzymes affects the microtubule network and causes protein aggregate formation in neural cells: implications for neurodegenerative diseases. Biochim Biophys Acta. 2012 Nov;1823(11):2057-68. PMID: 22565157.