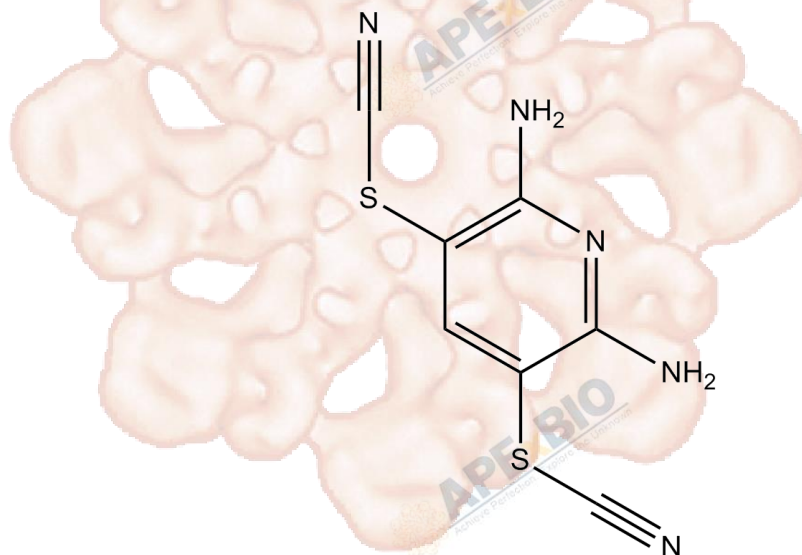


Product Data Sheet

PR-619

| | |
|------------------|----------------------------|
| Cat. No.: | A8212 |
| CAS No.: | 2645-32-1 |
| Formula: | C7H5N5S2 |
| M.Wt: | 223.28 |
| Synonyms: | |
| Target: | Ubiquitination/ Proteasome |
| Pathway: | DUB |
| Storage: | Store at -20°C |



Solvent & Solubility

insoluble in H₂O; insoluble in EtOH; ≥11.15 mg/mL in DMSO

In Vitro

| Preparing Stock Solutions | Solvent Concentration | Mass | 1mg | 5mg | 10mg |
|------------------------------|--------------------------|------|-----------|------------|------------|
| | | | | | |
| | 1 mM | | 4.4787 mL | 22.3934 mL | 44.7868 mL |
| | 5 mM | | 0.8957 mL | 4.4787 mL | 8.9574 mL |
| | 10 mM | | 0.4479 mL | 2.2393 mL | 4.4787 mL |

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

Deubiquitylating enzymes (DBUs) inhibitor

IC₅₀ & Target

7.2 μM (EC₅₀) (USP2 core), 3.93 μM (EC₅₀) (USP4), 5.10 μM (EC₅₀) (USP20), 1.17 μM (EC₅₀) (JOSD2), 4.98 μM (EC₅₀) (DEN1)

In Vitro

Cell Viability Assay

Cell Line: OLN-t40 cells; GFP-LC3-OLN cells

Preparation method: The solubility of this compound in DMSO is >10 mM. General tips for obtaining

| | | |
|---------|--------------------------|---|
| | | a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months. |
| | Reacting conditions: | Indirect immunofluorescence assay: 18 h. |
| | Applications: | OLN-t40 cells were stably transfected with plasmids encoding the GFP-LC3 fusion protein, exposed to PR-619 (10 µM) for 18 h, and subjected to indirect immunofluorescence using antibodies against LC3. GFP-LC3-OLN cells were treated with PR-619 (9 µM) for 16 h. After, cells were incubated with LysoTracker Red (250 nM) for 30 min at 37°C. Results indicated that treatment with PR-619 represented a DUB inhibitor with broad specificity. Besides, PR-619 does not impair the autophagic flux. |
| In Vivo | Animal experiment | |
| | Applications: | |

Product Citations

See more customer validations on www.apexbt.com.

References

[1] Veronika Seiberlich, Janika Borchert, Victora Zhukareva, Christiane Richter-Landsberg. Inhibition of Protein Deubiquitination by PR-619 Activates the Autophagic Pathway in OLN-t40 Oligodendroglial Cells. *Cell Biochem Biophys*, 2013; 67:149–160.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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