

## PR-619

Catalog No: **tcsc1513**



### Available Sizes

**Size:** 10mg

**Size:** 50mg



### Specifications

**CAS No:**

2645-32-1

**Formula:**

$C_7H_5N_5S_2$

**Pathway:**

Cell Cycle/DNA Damage

**Target:**

Deubiquitinase

**Purity / Grade:**

>98%

**Solubility:**

DMSO :  $\geq 21$  mg/mL (94.05 mM)

**Alternative Names:**

2,6-Diamino-3,5-dithiocyanopyridine

**Observed Molecular Weight:**

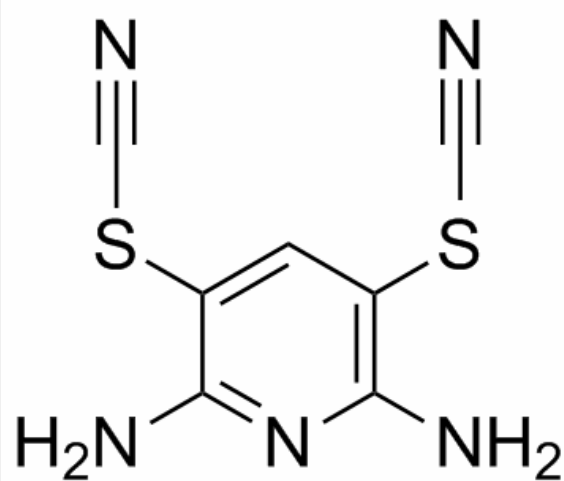
223.28

### Product Description

PR-619 is a broad-range **DUB** inhibitor with **EC<sub>50</sub>** of 3.93, 4.9, 6.86, 7.2, and 8.61  $\mu$ M for **USP4**, **USP8**, **USP7**, **USP2**, and **USP5**, respectively.

IC50 & Target: EC50: 3.93  $\mu$ M (USP4), 4.9  $\mu$ M (USP8), 6.86  $\mu$ M (USP7), 7.2  $\mu$ M (USP2), 8.61  $\mu$ M (USP5)<sup>[1]</sup>

**In Vitro:** PR-619, a deubiquitylase inhibitor, prevents degradation, indicating KCa3.1 is targeted for degradation by ubiquitylation. In PR-619 treated cells, channel degradation is significantly inhibited with  $87 \pm 1\%$  of KCa3.1 still remaining after 24 hrs (n=3; P[2]. Cell viability is determined by MTT assay and revealed that PR-619 exerted concentration-dependent cytotoxicity in a very narrow concentration range of 7-10  $\mu$ M<sup>[3]</sup>.



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!