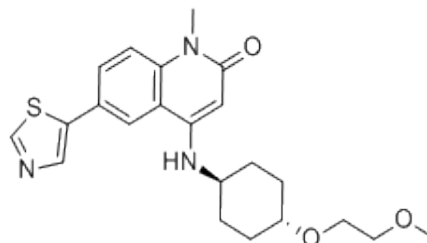


Data Sheet

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Global Supplier of Chemical Probes, Inhibitors & Agonists

Product Name :CD38 inhibitor 1
Cat.No. :URK-V767
CAS No. :1700637-55-3
Molecular Formula :C₂₂H₂₇N₃O₃S
Molecular Weight :413.536
Target :
Solubility :



Biological Activity

CD38 inhibitor 78c is a potent, specific, reversible CD38 inhibitor with K_i of 14.5 nM for recombinant human CD38; CD38 inhibitor 78c is 10-fold less potent against the cyclase activity than the hydrolase activity of rhCD38 (K_i=100 and 9.7 nM, respectively); shows no effect in the CD157 catalytic activities; reverses age-related NAD⁺ decline and improves several physiological and metabolic parameters of aging, including glucose tolerance, muscle function, exercise capacity, and cardiac function in mouse models of natural and accelerated aging; increases NAD⁺ levels, resulting in activation of pro-longevity and health span-related factors, including sirtuins, AMPK, and PARP, ameliorates age-related metabolic dysfunction in vivo.

References

1. Tarragó MG, et al. Cell Metab. 2018 May 1;27(5):1081-1095.e10.
2. Becherer JD, et al. J Med Chem. 2015 Sep 10;58(17):7021-56.

Note:All products of Ureiko are only used for scientific research or drug certificate declaration, we do not provide products and services for any personal use!

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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