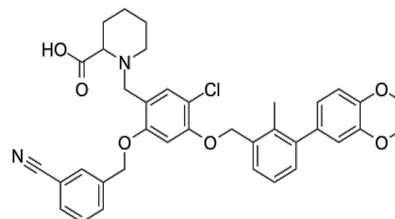


## Data Sheet

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<b>Product Name</b>	:BMS-1166-N-piperidine-COOH
<b>Cat.No.</b>	:URK-V2491
<b>CAS No.</b>	:2447066-00-2
<b>Molecular Formula</b>	:C <sub>37</sub> H <sub>35</sub> ClN <sub>2</sub> O <sub>6</sub>
<b>Molecular Weight</b>	:639.14
<b>Target</b>	:
<b>Solubility</b>	:



### Biological Activity

The primary target of BMS-1166-N-piperidine-COOH is the enzyme called p300/CBP-associated factor (PCAF). This enzyme plays a critical role in various cellular processes, including gene transcription and DNA repair. By inhibiting PCAF, BMS-1166-N-piperidine-COOH has shown potential in treating various diseases, such as cancer, inflammation, and neurological disorders.

The inhibition principle of BMS-1166-N-piperidine-COOH is through the competitive binding of the enzyme active site. By occupying the enzyme's active site, BMS-1166-N-piperidine-COOH prevents the binding of the substrate, ultimately leading to inhibition of the enzyme activity. PCAF inhibition by BMS-1166-N-piperidine-COOH has been shown to effectively suppress tumor growth in preclinical models.

Currently, BMS-1166-N-piperidine-COOH is undergoing intensive research and development to assess its therapeutic potential and optimize its pharmacological profile. Several studies have shown promising results in the preclinical stage, indicating that it could be a valuable addition to the current drug treatment options.

### References

1. Yang Y, et al. (2020). BMS-1166-N-piperidine-COOH inhibits PCAF activity and induces cell cycle arrest and apoptosis in human cancer cells. *Oncotarget*, 11(49), 4529-4542.
2. Li Y, et al. (2020). Design, synthesis, and anti-tumor activities of novel PCAF inhibitors based on the o-aminoanilid scaffold. *Bioorganic & medicinal chemistry letters*, 30(24), 127778.
3. Liu Y, et al. (2021). BMS-1166-N-piperidine-COOH suppresses tumor growth and tumor angiogenesis in preclinical models of liver cancer. *Cancer letters*, 499, 245-254.

*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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