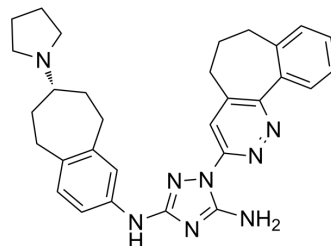


## Bemcentinib (GMP)

Cat. No.:	HY-15150G
CAS No.:	1037624-75-1
Molecular Formula:	C <sub>30</sub> H <sub>34</sub> N <sub>8</sub>
Molecular Weight:	506.64
Target:	TAM Receptor
Pathway:	Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

<b>Description</b>	Bemcentinib (R428) GMP is an orally active and selective inhibitor of Axl with an IC <sub>50</sub> of 14 nM <sup>[1][2]</sup> .
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 14 nM (Axl kinase) <sup>[1][2]</sup> .
<b>In Vitro</b>	<p>Bemcentinib (R428) (2 μM) significantly interferes with mechanisms of migration and invasion of Axlpos melanoma cells at levels comparable to Axl knockdown<sup>[1]</sup>. Bemcentinib (R428) synergizes with CDDP to enhance suppression of liver micrometastasis<sup>[2]</sup>.</p> <p>Bemcentinib (R428) (50 nM-1 μM) causes a concentration-dependent inhibition of preadipocyte differentiation into mature adipocytes, as evidenced by reduced lipid uptake<sup>[3]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>
<b>In Vivo</b>	<p>Bemcentinib (R428) (125 mg/kg, p.o.) significantly blocks MDA-MB-231-luc-D3H2LN metastases development in two independent mouse models of breast cancer dissemination, suppresses both tumor angiogenesis and vascular endothelial growth factor (VEGF)-induced corneal neovascularization in vivo<sup>[2]</sup>.</p> <p>Bemcentinib (R428) (75 mg/kg/day, 25 mg/kg twice daily, p.o.) makes mice keep on a high-fat diet resulted in significantly reduced weight gain and subcutaneous and gonadal fat mass<sup>[3]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

### CUSTOMER VALIDATION

- Cancer Cell. 2018 Dec 10;34(6):954-969.e4.
- Cell Stem Cell. 2020 Jul 2;27(1):125-136.e7.
- Mil Med Res. 2023 Feb 22;10(1):7.
- Nat Commun. 2023 Jun 15;14(1):3560.
- Neuron. 2022 Sep 7;S0896-6273(22)00749-8.

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### REFERENCES

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[1]. Sensi M, et al. Human cutaneous melanomas lacking MITF and melanocyte differentiation antigens express a functional Axl receptor kinase. J Invest Dermatol. 2011 Dec;131(12):2448-57.

[2]. Lijnen HR, et al. Growth arrest-specific protein 6 receptor antagonism impairs adipocyte differentiation and adipose tissue development in mice. J Pharmacol Exp Ther. 2011 May;337(2):457-64.

[3]. Holland SJ, et al. R428, a selective small molecule inhibitor of Axl kinase, blocks tumor spread and prolongs survival in models of metastatic breast cancer. Cancer Res. 2010 Feb 15;70(4):1544-54.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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