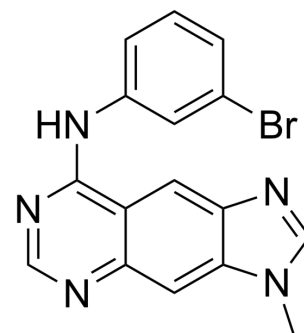


BPIQ-I

Cat. No.:	HY-112405
CAS No.:	174709-30-9
Molecular Formula:	C ₁₆ H ₁₂ BrN ₅
Molecular Weight:	354.2
Target:	EGFR
Pathway:	JAK/STAT Signaling; Protein Tyrosine Kinase/RTK
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	BPIQ-I (PD 159121) is a potent and ATP-competitive EGFR tyrosine kinase inhibitor.. BPIQ-I shows anti-proliferative activity [1][2].								
In Vitro	<p>BPIQ-I (0-50 μM; 3 days) shows antiproliferative activity with EC₅₀s of >50, 30, >50, 6.5, >50 μM for A-431, MDA-MB-468, U-87, SKOV-3, MDAMB-231 cells, respectively^[1].</p> <p>BPIQ-I (10 nM) blocks erbB RTKs by competing with ATP, eliminating the CO₂ sensitivity^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay ^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>A-431, MDA-MB-468, U-87, SKOV-3, MDAMB-231 cells</td> </tr> <tr> <td>Concentration:</td> <td>0-50 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>3 days</td> </tr> <tr> <td>Result:</td> <td>Inhibited cells growth with EC₅₀s of >50, 30, >50, 6.5, >50 μM for A-431, MDA-MB-468, U-87, SKOV-3, MDAMB-231 cells, respectively.</td> </tr> </table>	Cell Line:	A-431, MDA-MB-468, U-87, SKOV-3, MDAMB-231 cells	Concentration:	0-50 μM	Incubation Time:	3 days	Result:	Inhibited cells growth with EC ₅₀ s of >50, 30, >50, 6.5, >50 μM for A-431, MDA-MB-468, U-87, SKOV-3, MDAMB-231 cells, respectively.
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Result:	Inhibited cells growth with EC ₅₀ s of >50, 30, >50, 6.5, >50 μM for A-431, MDA-MB-468, U-87, SKOV-3, MDAMB-231 cells, respectively.								

REFERENCES

[1]. Rae JM, et al. Evaluation of novel epidermal growth factor receptor tyrosine kinase inhibitors. Breast Cancer Res Treat. 2004 Jan;83(2):99-107.

[2]. Zhou Y, et al. Role of a tyrosine kinase in the CO₂-induced stimulation of HCO₃⁻ reabsorption by rabbit S2 proximal tubules. Am J Physiol Renal Physiol. 2006 Aug;291(2):F358-67.

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

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