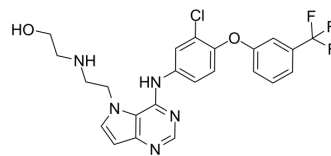


## EGFR/HER2-IN-11

Cat. No.:	HY-160613
CAS No.:	1346176-20-2
Molecular Formula:	C <sub>23</sub> H <sub>21</sub> ClF <sub>3</sub> N <sub>5</sub> O <sub>2</sub>
Molecular Weight:	491.89
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

<b>Description</b>	EGFR/HER2-IN-11 (compound 20) is an orally active dual inhibitor for human epidermal growth factor receptor 2 (HER2) and epidermal growth factor receptor (EGFR), with IC <sub>50</sub> s of 7.7 and 22 nM, respectively. EGFR/HER2-IN-11 exhibits antitumor efficacy and inhibits proliferation against cancer cells BT-474 with GI <sub>50</sub> of 601 nM <sup>[1]</sup> .
<b>In Vivo</b>	EGFR/HER2-IN-11 (10 mg/kg, p.o.) reveals a metabolic stability of 59 μL/min/mg and an AUC <sub>0-8h</sub> of 2.476 μg·h/mL in BALB/c mice <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

[1]. Ishikawa T, et al., Design and synthesis of novel human epidermal growth factor receptor 2 (HER2)/epidermal growth factor receptor (EGFR) dual inhibitors bearing a pyrrolo[3,2-d]pyrimidine scaffold. *J Med Chem.* 2011 Dec 8;54(23):8030-50.

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

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