

## EGFR/BRAFV600E-IN-4

## Chemical Properties

CAS No. :

Formula: C<sub>22</sub>H<sub>16</sub>N<sub>4</sub>O<sub>5</sub>

Molecular Weight: 384.45

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

Description	EGFR/BRAFV600E-IN-4 (Compound 10f) is a dual inhibitor of EGFR and BRAFV600E, with IC <sub>50</sub> values of 61 nM and 43 nM, respectively. It halts the cell cycle, induces apoptosis in both early and late stages, and inhibits cancer cell growth in vitro, showing broad-spectrum anticancer activity.
Targets(IC <sub>50</sub> )	Apoptosis,EGFR,Raf
In vitro	EGFR/BRAFV600E-IN-4 (0.01-100 µM) demonstrates broad-spectrum antiproliferative activity with GI <sub>50</sub> values ranging from 1.66 to greater than 100 µM. It effectively inhibits the growth of A-549, Panc-1, HT-29, and MCF-7 cells with IC <sub>50</sub> values between 24 nM and 27 nM over 48 hours (1.56-100 nM), while showing relative safety toward MCF-10A cells, with a cell viability of 91%. At a concentration of 24 nM for 24 hours, EGFR/BRAFV600E-IN-4 induces cell cycle arrest in the G <sub>0</sub> /G <sub>1</sub> phase, hindering the transition from G <sub>1</sub> to S and G <sub>2</sub> /M phases, and triggers apoptosis both in the early and late stages.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6011 mL	13.0056 mL	26.0112 mL
5 mM	0.5202 mL	2.6011 mL	5.2022 mL
10 mM	0.2601 mL	1.3006 mL	2.6011 mL
50 mM	0.052 mL	0.2601 mL	0.5202 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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