Canertinib (CI-1033), EGFR and HER2/ErbB2 tyrosine kinase inhibitor

Overview

Product name: Canertinib (CI-1033), EGFR and HER2/ErbB2 tyrosine kinase inhibitor

Description: Potent irreversible EGFR and HER2/ErbB2 tyrosine kinase inhibitor

Biological description: Potent, irreversible pan-ErbB tyrosine kinase inhibitor (IC\textsubscript{50} values are 1.5 and 9 nM at EGFR and ErbB2 respectively). Orally active. Antitumor and radiation-sensitizing agent. Active \textit{in vivo} and \textit{in vitro}.

Purity: > 99%

CAS Number: 289499-45-2

Chemical structure:

![Chemical structure](image)

Properties

Chemical name: \(N\)-[4-(3-Chloro-4-fluoroanilino)-7-(3-morpholin-4-ylpropoxy)quinazolin-6-yl]prop-2-enamide dihydrochloride

Molecular weight: 558.86

Molecular formula: \(C_{24}H_{25}ClFN_{5}O_{3}\cdot2HCl\)

PubChem identifier: 156413

Storage instructions: Store at -20°C. Store under desiccating conditions. The product can be stored for up to 12 months.

Solubility overview: Soluble in DMSO to 100 mM

Handling: Wherever possible, you should prepare and use solutions on the same day. However, if you need to make up stock solutions in advance, we recommend that you store the solution as aliquots in tightly sealed vials at -20°C. Generally, these will be useable for up to one month. Before use, and prior to opening the vial we recommend that you allow your product to equilibrate to room temperature.
temperature for at least 1 hour.

Need more advice on solubility, usage and handling? Please visit our [frequently asked questions (FAQ) page](#) for more details.

**SMILES**

C=CC(=O)NC1=C(C=CC=C2C(=C1)C(=NC=N2)NC3=CC(=C(C=C3)F)Cl)OCCCN4CCOCC4.Cl.Cl

**Source**

Synthetic

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**Please note:** All products are “FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES, NOT FOR USE IN HUMANS”

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- Replacement or refund for products not performing as stated on the datasheet
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- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
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- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit [https://www.abcam.com/abpromise](https://www.abcam.com/abpromise) or contact our technical team.

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