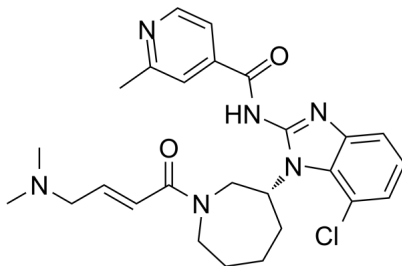


Certificate of Analysis

| | |
|----------------|------------|
| Catalog Number | BP10602 |
| Product Name | Nazartinib |

Physical and Chemical Properties

| | |
|--|---|
| Synonyms | NVS-816, EGF816 |
| CAS No. | 1508250-71-2 |
| Chemical Formula | C ₂₆ H ₃₁ ClN ₆ O ₂ |
| Molecular Weight | 495.02 |
| Solubility | DMSO: 92 mg/mL (185.9 mM) Ethanol: 92 mg/mL (185.9 mM); H ₂ O: <1 mg/mL |
| Storage | Powder: -20°C for 2 years In solvent: -80°C for 1 year |
| Chemical Structure OR Tested Image |  <p>The chemical structure of Nazartinib is shown. It features a 4-methylpyridine ring connected via a carbonyl group to a 1H-imidazo[4,5-b]pyridine system. This system is further connected to a 7-chlorophenyl ring. A side chain consisting of a dimethylamino group, a trans-vinyl group, and a carbonyl group is attached to the imidazole ring of the heterocyclic system.</p> |

Product Information

| | |
|--------------|--|
| Description | Nazartinib (EGF816, NVS-816) is a covalent, irreversible, mutant-selective EGFR inhibitor that has nanomolar inhibitory potency against activating mt (L858R, ex19del) and T790M mt, with up to 60-fold selectivity over wild type (wt) EGFR in vitro. |
| Targets&IC50 | mutant EGFR: 0.031 μ M(Ki) |
| In vitro | H1975, H3255, HCC827, A431, and HaCaT cells are maintained in RPMI media supplemented with antibiotics and 10% FBS, maintained in a 37°C, 5% CO2 humidified incubator. After an overnight incubation in 384-well plates, serial diluted compounds are transferred to cells and incubated for 3 hours. HaCaT cells are stimulated with 10 ng/mL EGF (50 ng/mL EGF for A431) for 5 minutes. Cells are lysed in 1% Triton X-100 buffer containing protease and phosphatase inhibitors. Lysates are analyzed by sandwich ELISA utilizing goat anti-EGFR capture antibody, anti-phospho-EGFR(Y1173), and anti-rabbit HRP. Signal is measured by chemiluminescent detection.(Only for Reference) |

Analytical Data

| | |
|---------------------------------|--|
| HPLC | Shows Min >99% purity |
| H-NMR | Consistent with structure |
| Stability and Solubility Advice | Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details. |

Purdue Bioscience Inc.

750 50th St, Brooklyn, NY 11220, USA

<https://www.purduebio.com>

1-877.618.7311

info@purduebio.com

v2 Revision on 12/28/2022