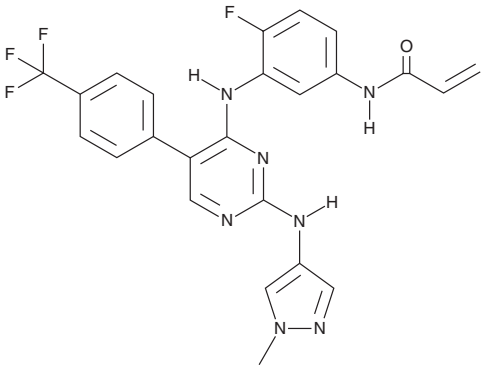
PRODUCT INFORMATION

Pebezertinib

Item No. 46564



CAS Registry No.:	2769954-39-2
Formal Name:	N-[4-fluoro-3-[[2-[(1-methyl-1H-pyrazol-4-yl)amino]-5-[4-(trifluoromethyl)phenyl]-4-pyrimidinyl]amino]phenyl]-2-propenamide
Synonyms:	BLU-451, LNG-451
MF:	$C_{24}H_{19}F_4N_7O$
FW:	497.5
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Pebezertinib is supplied as a solid. A stock solution may be made by dissolving the pebezertinib in the solvent of choice, which should be purged with an inert gas. Pebezertinib is sparingly soluble (1-10 mg/ml) in DMSO.

Description

Pebezertinib is a covalent inhibitor of mutant EGFR.[1] It selectively inhibits $EGFR^{L858R}$, EGFR containing an exon 19 deletion (ex19del), and EGFR containing the exon 20 insertion D770insNGP ($EGFR^{D770insNGP}$) over wild-type EGFR (IC_{50}s = 3.4, 3, 8.6, and 81 nM, respectively). Pebezertinib reduces EGFR phosphorylation in, and the proliferation of, Ba/F3 cells expressing various EGFR mutations but does not reduce the proliferation of A431 cells, which express wild-type EGFR. It reduces tumor size in patient-derived xenograft (PDX) mouse models of non-small cell lung cancer (NSCLC) with cells expressing $EGFR^{H773insNPH}$ or $EGFR^{V769insASV}$. Pebezertinib (2.5-25 mg/kg, p.o.) reduces tumor size in a PC-9 NSCLC mouse xenograft model of metastatic brain cancer.

Reference

1. Millet, Y.A., Spira, A.I., Baik, C.S., *et al.* BLU-451, a CNS-active, potent, and selective small-molecule inhibitor against uncommon *EGFR* mutations. *Mol. Cancer Ther.* (2026).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

Copyright Cayman Chemical Company, 10/29/2026

CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.**CAYMANCHEM**.COM