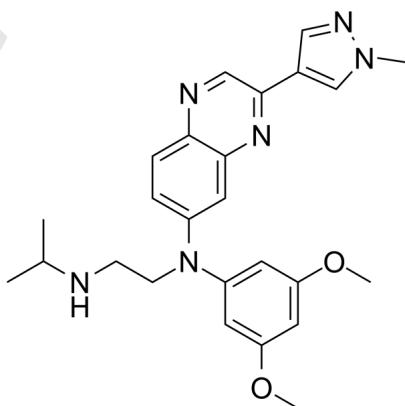


Certificate of Analysis

Catalog Number	BP22537
Product Name	Erdafitinib

Physical and Chemical Properties

CAS No.	1346242-81-6
Chemical Formula	C ₂₅ H ₃₀ N ₆ O ₂
Molecular Weight	446.54
Solubility	DMSO: 62.5 mg/mL (139.97 mM, Need ultrasonic)
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	Erdafitinib (JNJ-42756493) is a potent and orally available FGFR family inhibitor; inhibits FGFR1/2/3/4 with IC ₅₀ s of 1.2, 2.5, 3.0 and 5.7 nM, respectively.
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Targets&IC50	FGFR1: 1.2 nM (IC50); FGFR2: 2.5 nM (IC50); FGFR3: 3.0 nM (IC50); FGFR4: 5.7 nM (IC50);
In vitro	<p>Erdafitinib (JNJ-42756493) inhibits the tyrosine kinase activities of FGFR1-4 in time-resolved fluorescence assays with IC50 values of 1.2, 2.5, 3.0 and 5.7 nM, respectively. The closely related VEGFR2 kinase is less potently inhibited (30-fold less potent compared to FGFR1) by erdafitinib, with an IC50 value of 36.8 nM. Erdafitinib binds FGFR1, 3, 4, and 2 with Kd values of 0.24, 1.1, 1.4 and 2.2 nM, respectively. The Kd value for VEGFR2 is higher at 6.6 nM. Erdafitinib inhibits proliferation of FGFR1, 3, and 4 expressing cells with IC50 values of 22.1, 13.2, and 25nM, respectively.</p>
In vivo	In xenografts from human tumor cell lines or patient-derived tumor tissue with activating FGFR alterations, Erdafitinib administration results in potent and dose-dependent antitumor activity accompanied by pharmacodynamic modulation of phospho-FGFR and phospho-ERK in tumors.

Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	<p>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.</p>

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v2 Revision on 12/28/2022