



Product Specification Sheet

Product Name: EAI045

Catalog Number: C3240

Technical information:

Chemical Formula: $C_{19}H_{14}FN_3O_3S$

CAS #: 1942114-09-1

Molecular Weight: 383.4

Purity: > 98%

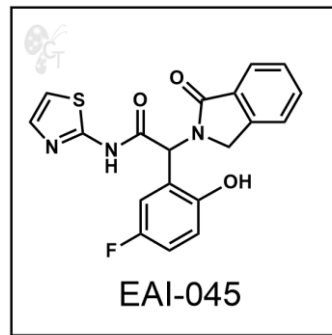
Appearance: White solid

Solubility: Soluble in DMSO up to 200 mM

Chemical Name: 2-(5-fluoro-2-hydroxyphenyl)-2-(1-oxoisindolin-2-yl)-N-(thiazol-2-yl)acetamide

Storage: For longer shelf life, store solid powder or DMSO solution at -20°C desiccated.

Shelf Life: In the unopened package, powder is stable for 1 year and DMSO solution is stable for 6 months under proper storage condition.



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- Handling:**
- To make 10 mM stock solution, add 0.261mL of DMSO for each mg of EAI045.
 - For DMSO solution, briefly spin the vial at 500 rpm in a 50 mL conical tube to ensure maximum sample recovery.

Biological Activity: EAI045 is the fourth-generation EGFR inhibitor overcoming T790M and C797S resistance [1]. EAI045 is an allosteric inhibitor that targets selected drug-resistant EGFR mutants but spares the wild-type receptor [2]. When combined with cetuximab that blocks EGFR dimerization, EAI045 markedly reduces tumor growth in a mouse model of EGFR L858R/T790M and L858R/T790M/C797S-mutant-driven lung cancer [1].

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- Reference:**
1. Jia Y, et al. Overcoming EGFR(T790M) and EGFR(C797S) resistance with mutant-selective allosteric inhibitors. Nature 2016; 534:129–132. Pubmed ID: 27251290
 2. Wang S, et al. EAI045: The fourth-generation EGFR inhibitor overcoming T790M and C797S resistance. Cancer Let 2017; 385:51-54. Pubmed ID: 27840244
 3. Zhao P, et al. Crystal structure of EGFR T790M/C797S/V948R in complex with EAI045. Biochem Biophys Res Commun 2018; 502(3):332-337. Pubmed ID: 29802850

To reorder: <http://www.cellagentech.com/EAI045/>

For Technical Support: technical@cellagentech.com

Chemicals are sold for research use only, not for clinical or diagnostic use.