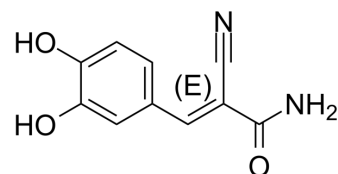


## (E)-AG 99

|                           |                                                              |       |          |
|---------------------------|--------------------------------------------------------------|-------|----------|
| <b>Cat. No.:</b>          | HY-100962                                                    |       |          |
| <b>CAS No.:</b>           | 122520-85-8                                                  |       |          |
| <b>Molecular Formula:</b> | C <sub>10</sub> H <sub>8</sub> N <sub>2</sub> O <sub>3</sub> |       |          |
| <b>Molecular Weight:</b>  | 204.18                                                       |       |          |
| <b>Target:</b>            | EGFR                                                         |       |          |
| <b>Pathway:</b>           | JAK/STAT Signaling; Protein Tyrosine Kinase/RTK              |       |          |
| <b>Storage:</b>           | Powder                                                       | -20°C | 3 years  |
|                           |                                                              | 4°C   | 2 years  |
|                           | In solvent                                                   | -80°C | 6 months |
|                           |                                                              | -20°C | 1 month  |



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 100 mg/mL (489.76 mM)  
 \* "≥" means soluble, but saturation unknown.

| Preparing Stock Solutions | Solvent Concentration | Mass      |            |            |
|---------------------------|-----------------------|-----------|------------|------------|
|                           |                       | 1 mg      | 5 mg       | 10 mg      |
|                           | 1 mM                  | 4.8976 mL | 24.4882 mL | 48.9764 mL |
|                           | 5 mM                  | 0.9795 mL | 4.8976 mL  | 9.7953 mL  |
|                           | 10 mM                 | 0.4898 mL | 2.4488 mL  | 4.8976 mL  |

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
 Solubility: ≥ 2.75 mg/mL (13.47 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
 Solubility: ≥ 2.75 mg/mL (13.47 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

(E)-AG 99 ((E)-Tyrphostin 46) is a potent EGFR inhibitor<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

EGFR

#### In Vitro

(E)-AG 99 effectively blocks tyrosine phosphorylation of p145<sup>met</sup> and promotes cell death accompanied by activation of caspase-like proteases<sup>[1]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Yamamoto N, et al. Tyrosine phosphorylation of p145met mediated by EGFR and Src is required for serum-independent survival of human bladder carcinoma cells. J Cell Sci. 2006 Nov 15;119(Pt 22):4623-33.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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