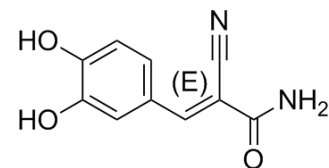


## (E)-AG 99

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



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 165 mg/mL (808.11 mM; Need ultrasonic)

| 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 >> 90% (20% SBE-β-CD in saline)**  
Solubility: ≥ 2.75 mg/mL (13.47 mM); Clear solution
- 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

### BIOLOGICAL ACTIVITY

|                           |   |
|---------------------------|---|
| Description               | (E)-AG 99 ((E)-Tyrphostin 46; (E)-Tyrphostin AG 99) 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> . |

---

## REFERENCES

[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.

---

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA