Flumatinib

| Cat. No.: | HY-13904 | | | |
|--------------------|---|-------|---------|--|
| CAS No.: | 895519-90-1 | | | |
| Molecular Formula: | C ₂₉ H ₂₉ F ₃ N ₈ O | | | |
| Molecular Weight: | 562.59 | | | |
| Target: | Bcr-Abl; c-Kit; PDGFR | | | |
| Pathway: | Protein Tyrosine Kinase/RTK | | | |
| Storage: | Powder | -20°C | 3 years | |
| | | 4°C | 2 years | |
| | In solvent | -80°C | 2 years | |
| | | -20°C | 1 year | |

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SOLVENT & SOLUBILITY

| In Vitro | DMSO : 100 mg/mL (177.75 mM; Need ultrasonic) | | | | | |
|----------------------------|---|-------------------------------|-----------|-----------|------------|--|
| Preparing Stock Solutio | | Solvent Mass Concentration | 1 mg | 5 mg | 10 mg | |
| | Preparing Stock Solutions | 1 mM | 1.7775 mL | 8.8875 mL | 17.7749 mL | |
| | | 5 mM | 0.3555 mL | 1.7775 mL | 3.5550 mL | |
| | | 10 mM | 0.1777 mL | 0.8887 mL | 1.7775 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: ≥ 2.08 mg/mL (3.70 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (3.70 mM); Clear solution | | | | | |

| BIOLOGICALACTIVITY | | | | |
|---------------------------|--|--|--|--|
| Description | Flumatinib (HHGV678) is an orally available, selective inhibitor of Bcr-Abl. Flumatinib inhibits c-Abl, PDGFRβ and c-Kit with IC ₅₀ s of 1.2 nM, 307.6 nM and 665.5 nM, respectively ^[1] . | | | |
| IC ₅₀ & Target | IC50 Value: 1.2 nM (c-Abl); 307.6 nM(PDGFRβ); 2662 nM (c-Kit) ^[1] . | | | |
| In Vitro | Flumatinib (HH-GV-678) can predominantly inhibit the autophosphorylation of Bcr-Abl in K562 cell. In higher concentration, Flumatinib can inhibit the phosphorylation of c-Kit in Mo7e cell and the phosphorylation of PDGFR in Swiss3T3 cell, however, Flumatinib has no or little effect on other tyrosine kinase including EGFR, KDR, c-Src and HER2 [1]. Flumatinib (HHGV678) effectively overcame the drug resistance of certain KIT mutants with activation loop mutations (i.e., D820G, N822K, Y823D, and A829P) [2]. | | | |

Product Data Sheet

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

REFERENCES

[1]. Luo H, et al. HH-GV-678, a novel selective inhibitor of Bcr-Abl, outperforms imatinib and effectively overrides imatinib resistance. Leukemia. 2010 Oct;24(10):1807-9.

[2]. Zhao J, et al. Flumatinib, a selective inhibitor of BCR-ABL/PDGFR/KIT, effectively overcomes drug resistance of certain KIT mutants. Cancer Sci. 2013 Nov 10.

[3]. Gong A, et al. Metabolism of flumatinib, a novel antineoplastic tyrosine kinase inhibitor, in chronic myelogenous leukemia patients. Drug Metab Dispos. 2010 Aug;38(8):1328-40.

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

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