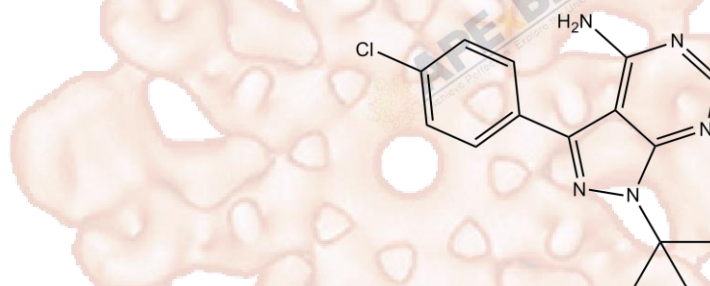


Product Data Sheet

PP 2 (AG 1879)

| | |
|------------------|--|
| Cat. No.: | A8216 |
| CAS No.: | 172889-27-9 |
| Formula: | C ₁₅ H ₁₆ CIN ₅ |
| M.Wt: | 301.78 |
| Synonyms: | |
| Target: | Tyrosine Kinase |
| Pathway: | Src |
| Storage: | Desiccate at 4°C |



Solvent & Solubility

insoluble in H₂O; ≥15.1 mg/mL in DMSO; ≥20.05 mg/mL in EtOH with ultrasonic

In Vitro

| Preparing Stock Solutions | Solvent | Mass | | |
|---------------------------|----------------------|-----------|------------|------------|
| | | 1mg | 5mg | 10mg |
| | Concentration | | | |
| | 1 mM | 3.3137 mL | 16.5684 mL | 33.1367 mL |
| | 5 mM | 0.6627 mL | 3.3137 mL | 6.6273 mL |
| | 10 mM | 0.3314 mL | 1.6568 mL | 3.3137 mL |

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

Biological Activity

Shortsummary

Src-family kinases inhibitor

IC₅₀ & Target

4 nM (LCK), 5 nM (Fyn), 480 nM (EGFR), >50 μM (JAK2), >100 μM (ZAP70)

In Vitro

Cell Viability Assay

| | |
|----------------------|--|
| Cell Line: | Human glioblastoma cell line U251 |
| Preparation method: | Soluble in DMSO > 15.1mg/mL. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months. |
| Reacting conditions: | 10μmol/L, 4days for cell proliferation assays; 5μmol/L, 1min for fluorescent |

| | | |
|---------|--------------------------|--|
| | | time-lapse videomicroscopy images |
| | Applications: | A decreased proliferation appeared in the glioma cell cultures treated with 10µmol/L PP2, suggesting thatinhibition of Src family kinase activity in glioma cells resulted in an exit from the cell cycle in monolayers. PP2 caused the disappearance of peripheral membrane ruffles within minutes. |
| In Vivo | Animal experiment | |
| | Animal models: | Female Sprague-Dawley rats |
| | Dosage form: | 50 µM, 10 µl, intrathecal injection |
| | Applications: | Pretreatment with PP2 exhibited no effects on the TS(test stimulation)-evoked baseline reflex activity, it prevented ephrinB2-dependent reflex potentiation by decreasing the mean spike count evoked by the TS. |
| | Other notes: | Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal. |

Product Citations

1. Zhang XH, Li CY, et al. "Pro-angiogenic activity of isoliquiritin on HUVECs in vitro and zebrafish in vivo through Raf/MEK signaling pathway." Life Sci. 2019 Apr 15;223:128-136.PMID:30876941

See more customer validations on www.apexbt.com.

References

- [1]. Angers-Loustau A1, Hering R, et al, SRC regulates actin dynamics and invasion of malignant glial cells in three dimensions. Mol Cancer Res, 2004. 2(11): p. 595-605.
- [2]. Wu HC1, Chang CH, et al, EphrinB2 induces pelvic-urethra reflex potentiation via Src kinase-dependent tyrosine phosphorylation of NR2B. Am J Physiol Renal Physiol, 2011. 300(2): p. F403-11.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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