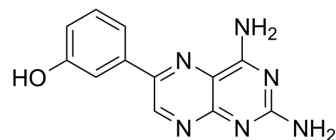


TG 100713

| | |
|--------------------|--|
| Cat. No.: | HY-13514 |
| CAS No.: | 925705-73-3 |
| Molecular Formula: | C ₁₂ H ₁₀ N ₆ O |
| Molecular Weight: | 254.25 |
| Target: | PI3K |
| Pathway: | PI3K/Akt/mTOR |
| Storage: | 4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light) |



SOLVENT & SOLUBILITY

In Vitro

DMSO : 6.41 mg/mL (25.21 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent | | 1 mg | 5 mg | 10 mg |
|---------------------------|---------------|------|-----------|------------|------------|
| | Concentration | Mass | | | |
| | 1 mM | | 3.9331 mL | 19.6657 mL | 39.3314 mL |
| | 5 mM | | 0.7866 mL | 3.9331 mL | 7.8663 mL |
| | 10 mM | | 0.3933 mL | 1.9666 mL | 3.9331 mL |

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

BIOLOGICAL ACTIVITY

Description

TG 100713 is an inhibitor of PI3K, with IC₅₀s of 24, 50, 165, and 215 nM for PI3Kδ, γ, α and β isoforms respectively^[1].

IC₅₀ & Target

| | | | |
|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|
| PI3Kδ 24 nM (IC ₅₀) | PI3Kγ 50 nM (IC ₅₀) | PI3Kα 165 nM (IC ₅₀) | PI3Kβ 215 nM (IC ₅₀) |
|------------------------------------|------------------------------------|-------------------------------------|-------------------------------------|

In Vitro

TG100713 (10 μM; 48 or 72 h) strongly inhibits endothelial cell (EC) proliferation^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Sci Rep. 2022 Apr 12;12(1):6090.
- Molecules. 2020 Apr 23;25(8):1980.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Doukas J, et, al. Phosphoinositide 3-kinase gamma/delta inhibition limits infarct size after myocardial ischemia/reperfusion injury. Proc Natl Acad Sci U S A. 2006 Dec 26;103(52):19866-71.

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

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