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1. Description

Components StemMACS™ Thiazovivin in Solution.
A selective small molecule ROCK inhibitor.

Size 0.5 mg in 803 µL

Product format 2 mM in DMSO, filtered (0.2 µm)

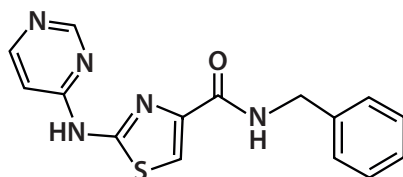
Molecular weight 311.36

CAS number 1226056-71-8

Systematic name N-Benzyl-2-(pyrimidin-4-ylamino)thiazole-4-carboxamide

Molecular formula C₁₅H₁₃N₅OS

Structure



Purity >99%

Storage Store aliquots at -20 °C protected from light.
The aliquots are stable for 6 months from date of receipt when stored as directed.

2. Protocol

2.1 Preparation of aliquots

1. Before opening, briefly centrifuge the vial to ensure full recovery of sample.
2. Prepare appropriate aliquots and store at -20 °C. Avoid repeated freeze-thaw cycles.

2.2 Use in cell culture

1. Thaw aliquots at 37 °C as needed.
2. To avoid precipitation, prewarm the cell culture media prior to adding the reconstituted compound.

▲ **Note:** The DMSO concentration in culture should not exceed 0.5 %.

Refer to www.miltenyibiotec.com for all data sheets and protocols. Miltenyi Biotec provides technical support worldwide. Visit www.miltenyibiotec.com/local to find your nearest Miltenyi Biotec contact.

1.1 Background information

StemMACS Thiazovivin in Solution is a selective small molecule inhibitor of Rho-associated Kinase (ROCK). Thiazovivin promotes survival and cloning efficiency of human pluripotent stem cells after enzymatic dissociation into single cells. It has been shown to increase reprogramming efficiency when combined with inhibitors of the TGF-β and MEK signaling pathways.

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