Product Description

FAK Inhibitor 14 is a direct inhibitor of focal adhesion kinase 1 (FAK1) autophosphorylation at Y397 (IC₅₀ ≅ 1 µM; Golubovskaya et al.). There is no known significant effect on the activity of a range of other kinases, including the homolog PYK-2 (Golubovskaya et al.). This product is supplied as the tetrahydrochloride salt of the molecule.

Physical Appearance: A crystalline solid
Storage: Product stable at -20°C as supplied. Protect from prolonged exposure to light. For product expiry date, please contact techsupport@stemcell.com.
Solubility:
- Water ≤ 70 mM
- DMSO ≤ 70 mM
For example, to prepare a 10 mM stock solution in water, resuspend 100 mg in 35.2 mL of water.
Prepare stock solution fresh before use. Information regarding stability of small molecules in solution has rarely been reported, however, as a general guide we recommend storage in DMSO at -20°C. Aliquot into working volumes to avoid repeated freeze-thaw cycles. The effect of storage of stock solution on compound performance should be tested for each application.

For use as a cell culture supplement, stock solution should be diluted into culture medium immediately before use. Avoid final DMSO concentration above 0.1% due to potential cell toxicity.
Published Applications

CANCER RESEARCH
- Demonstrates anti-tumor activity in multiple cell lines and in xenograft tumor models (Golubovskaya et al.; O’Brien et al.; Hochwald et al.; Beierle et al.).

DISEASE MODELING
- Decreases phenylephrine-activated stiffening of mouse aortic tissue, a model of early cardiovascular disease (Saphirstein et al.).

References


Related Small Molecules

For a complete list of small molecules available from STEMCELL Technologies, please visit our website at www.stemcell.com/smallmolecules or contact us at techsupport@stemcell.com.

This product is hazardous. Please refer to the Safety Data Sheet (SDS).