

Locostatin, RKIP / Raf-1 kinase disruptor

Catalog	Unit
TBI5381-5MG	5 mg
TBI5381-25MG	25 mg

Product Details

Formal Name: (4S)-3-[(E)-But-2-enoyl]-4-benzyl-2-oxazolidinone

Alternate Names: UIC-1005

Molecular Formula: C₁₄H₁₅NO₃

Formula Weight: 245.30

CAS Number: 133812-16-5

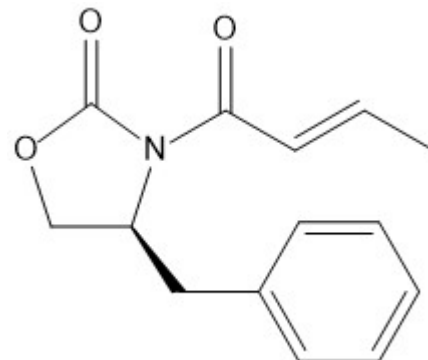
Purity: >98%

Formulation: powder

Solubility: Soluble in DMSO (60 mg/ml)

Storage: -20°C

Stability: ≥ 2 years.



Applications

RKIP / Raf-1 kinase disruptor

Functions

Inhibits cell migration by disrupting the interaction between Raf kinase inhibitor protein (RKIP) and Raf-1 kinase. Locostatin covalently binds to His86 of RKIP and also disrupts its interaction with G protein-coupled receptor kinase 2. Effectively inhibits cytokine release by human lymphocytes. Alleviates CCl₄-induced liver liver fibrosis in a mouse model. A useful probe to explore the complex functions of RKIP in cell physiology.

Application Procedures

First dissolved in DMSO (60 mg/ml), then diluted to aqueous buffer. Solutions in DMSO may be stored at -20°C for up to 3 months.

For research use only.