

Product Name: K34c

Catalog No.: 5114

Batch No.: 1

CAS Number: 939769-93-4

IUPAC Name: *N*-(2,6-Dimethylbenzoyl)-*O*-[3-(2-pyridinylamino)propyl]-*L*-tyrosine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₆H₂₉N₃O₄·1¼H₂O

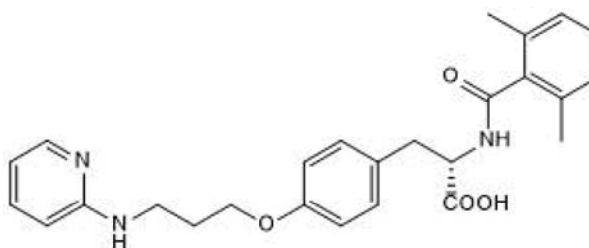
Batch Molecular Weight: 470.05

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.4% purity

Chiral HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	66.44	6.75	8.94
Found	66.57	6.79	8.96

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

K34c is a potent and selective $\alpha 5\beta 1$ integrin inhibitor ($IC_{50} = 3.1$ nM). K34c inhibits cell survival and migration, inhibits p53-dependent senescence induced by Temozolomide (Cat. No. 2706) or Ellipticine (Cat. No. 3357) and promotes apoptosis in U87MG cells. K34c also prevents TGF β -induced infiltration in vivo and reduces cell adhesion on fibronectin.

Physical and Chemical Properties:

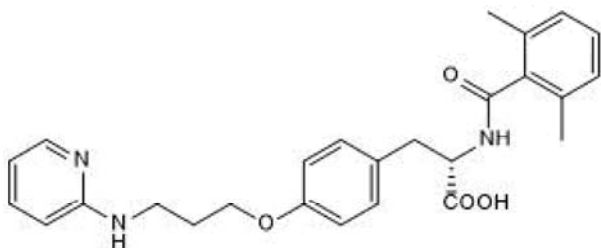
Batch Molecular Formula: $C_{26}H_{29}N_3O_4 \cdot 1\frac{1}{4}H_2O$

Batch Molecular Weight: 470.05

Physical Appearance: Off-white solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Store at $-20^{\circ}C$

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a $45-60^{\circ}C$ water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Kuonen *et al* (2018) TGF- β , fibronectin and integrin $\alpha 5\beta 1$ promote invasion in basal cell carcinoma. *J.Invest.Dermatol.* **138** 2432. PMID: 29758283.

Renner *et al* (2016) Expression/activation of $\alpha 5\beta 1$ integrin is linked to the β -catenin signaling pathway to drive migration in glioma cells. *Oncotarget* **7** 62194. PMID: 27613837.

Martinkova *et al* (2010) $\alpha 5\beta 1$ integrin antagonists reduce chemotherapy-induced premature senescence and facilitate apoptosis in human glioblastoma cells. *Int.J.Cancer* **127** 1240. PMID: 20099278.

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