

Casein Kinase II Inhibitor IV Hydrochloride Catalog No: tcsc0042436

 Image: Size: Smg

 Size: 10mg

 Size: 25mg

 Size: 50mg

 Image: Specifications

 Formula:

 C24H24ClN503

Pathway: Stem Cell/Wnt;Cell Cycle/DNA Damage

Target:

Casein Kinase;Casein Kinase

Purity / Grade: >98%

Solubility: 10 mM in DMSO

Observed Molecular Weight: 465.93

Product Description

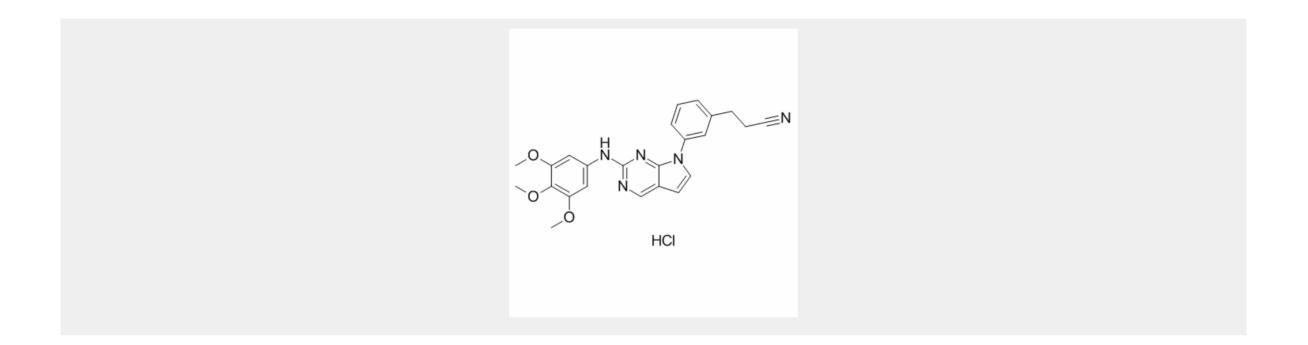
Casein Kinase II Inhibitor IV Hydrochloride is a small-molecule inducer of epidermal keratinocyte

differentiation.

IC50 & Target: Target: Casein Kinase^[1]



In Vitro: Treatment of human epidermal keratinocytes (NHEKs) with Casein Kinase II Inhibitor IV leads to an increase in the early differentiation markers keratins 1 and 10 at 48 h. Increased levels of IVL and TGM are observed in cells treated with Casein Kinase II Inhibitor IV at 72 h and persisted at 96 h. In addition, treated with Casein Kinase II Inhibitor IV expresses loricrin, a terminal differentiation marker, at later time points. Similar results are observed by messenger RNA (mRNA) expression analysis of NHEKs treated with Casein Kinase II Inhibitor IV. At early time points (12 and 24 h), treatment with Casein Kinase II Inhibitor IV leads to the upregulation of keratinocyte early differentiation marker genes, including keratin 1 (5.4-fold) and keratin 10 (5.4-fold). Terminal differentiation marker genes, including IVL (1.8-fold), TGM 1 (4.8-fold), loricrin (3.3-fold), and filaggrin (5.6-fold), are upregulated at late time points (36 and 48 h). These results are consistent with the ability of Casein Kinase II Inhibitor IV to induce differentiation of epidermal progenitor cells into terminally differentiated keratinocytes^[1].



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