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Zuschläge

- Mindermengenzuschlag
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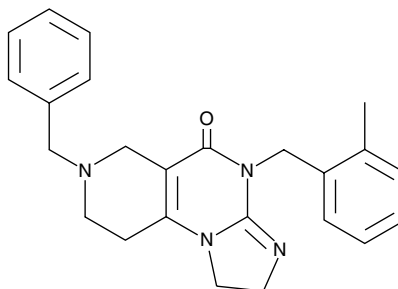
Product Information



TIC10

Item No. 16109

CAS Registry No.: 1616632-77-9
Formal Name: 2,4,6,7,8,9-hexahydro-4-[(2-methylphenyl)methyl]-7-(phenylmethyl)-imidazo[1,2-a]pyrido[3,4-e]pyrimidin-5(1H)-one
MF: C₂₄H₂₆N₄O
FW: 386.5
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 232, 311 nm



Laboratory Procedures

For long term storage, we suggest that TIC10 be stored as supplied at -20°C. It should be stable for at least two years.

TIC10 is supplied as a crystalline solid. A stock solution may be made by dissolving the TIC10 in the solvent of choice. TIC10 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of TIC10 in these solvents is approximately 10, 1, and 20 mg/ml, respectively.

TIC10 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, TIC10 should first be dissolved in DMF and then diluted with the aqueous buffer of choice. TIC10 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

TIC10 induces the expression of TNF-related apoptosis-inducing ligand (TRAIL) at 1-5 μM in a p53-independent manner.¹ It is orally active, stable, and crosses the blood-brain barrier.¹ The induction of TRAIL results from dual inhibition of Akt and ERK1/2 combined with nuclear translocation of the transcription factor FOXO3a.¹ TIC10 suppresses the growth of orthotopic human glioblastoma multiforme tumors in mice.¹

Reference

1. Allen, J.E., Krigsfeld, G., Mayes, P.A., *et al.* Dual inactivation of Akt and ERK by TIC10 signals Foxo3a nuclear translocation, TRAIL gene induction, and potent antitumor effects. *Sci. Transl. Med.* **5(171)**, 1-14 (2013).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/16109

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WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

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