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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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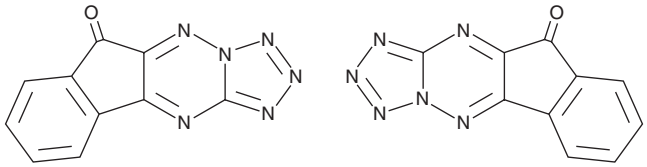
PRODUCT INFORMATION

KP372-1

Item No. 17808

CAS Registry No.:	1374996-60-7
Formal Name:	6H-indeno[1,2-ε]tetrazolo[1,5-b][1,2,4]triazin-6-one, compd. with 10H-indeno[2,1-ε]tetrazolo[1,5-b][1,2,4]triazin-10-one (1:1)
MF:	$C_{10}H_4N_6O \bullet C_{10}H_4N_6O$
FW:	224.2
Purity:	≥95% (sum of isomers)
UV/Vis.:	λ_{max}: 218, 267 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

KP372-1 is supplied as a crystalline solid. A stock solution may be made by dissolving the KP372-1 in the solvent of choice, which should be purged with an inert gas. KP372-1 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of KP372-1 in these solvents is approximately 20 mg/ml.

KP372-1 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, KP372-1 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. KP372-1 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

KP372-1 is a specific Akt inhibitor that demonstrates at least 10-fold selectivity against a panel of additional kinase targets, including CDK1, ERK1, GSK3β, LCK, MEK1, PKA, PKC, and S6K.[1,2] By blocking Akt signaling, KP372-1 has been shown to inhibit proliferation and to induce apoptosis of thyroid cancer cells with an IC_{50} value of 30-60 nM *in vitro*.[2] In acute myelogenous leukemia cells, KP372-1 is reported to inhibit the kinase activity of Akt, PDK1, and FLT3, decreasing the colony-forming ability of these cells with an IC_{50} value less than 200 nM.[1]

References

1. Zeng, Z., Samudio, I.J., Zhang, W., *et al.* Simultaneous inhibition of PDK1/AKT and Fms-like tyrosine kinase 3 signaling by a small-molecule KP372-1 induces mitochondrial dysfunction and apoptosis in acute myelogenous leukemia. *Cancer Res.* **66(7)**, 3737-3746 (2006).
2. Mandal, M., Kim, S., Younes, M.N., *et al.* The Akt inhibitor KP372-1 suppresses Akt activity and cell proliferation and induces apoptosis in thyroid cancer cells. *Br. J. Cancer* **92(10)**, 1899-1905 (2005).

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