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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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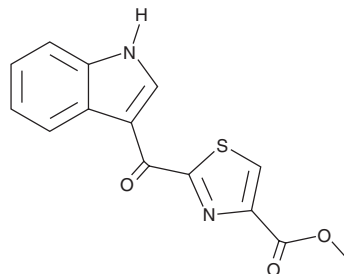
PRODUCT INFORMATION



ITE

Item No. 25355

CAS Registry No.: 448906-42-1
Formal Name: 2-(1H-indol-3-ylcarbonyl)-4-thiazolecarboxylic acid, methyl ester
MF: C₁₄H₁₀N₂O₃S
FW: 286.3
Purity: ≥98%
UV/Vis.: λ_{max}: 211, 273, 279, 356 nm
Supplied as: A 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

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

ITE is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, ITE should first be dissolved in DMF and then diluted with the aqueous buffer of choice. ITE has a solubility of approximately 0.14 mg/ml in a 1:6 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

ITE is an endogenous aryl hydrocarbon receptor (AhR) agonist.¹ It binds to AhR ($K_d = 65$ nM) and induces AhR-dependent transcription in luciferase reporter assays when used at a concentration of 0.01 μM. ITE (1 μM) inhibits anti-CD40- and IL-4-induced differentiation of isolated mouse splenic B cells, as well as proliferation and migration of SKOV3 ovarian cancer cells.^{2,3} *In vivo*, ITE (200 μg/animal, i.p.) reduces retinal detachment and ocular inflammatory cell infiltration in a mouse model of experimental autoimmune uveitis induced by complete Freund's adjuvant (CFA) and *M. tuberculosis*.⁴ ITE (80 mg/kg, i.p.) reduces tumor growth by 39% in an OVCAR-3 mouse xenograft model.³

References

1. Henry, E.C., Bemis, J.C., Henry, O., *et al.* A potential endogenous ligand for the aryl hydrocarbon receptor has potent agonist activity in vitro and in vivo. *Arch. Biochem. Biophys.* **450(1)**, 67-77 (2006).
2. Yoshida, T., Katsuya, K., Oka, T., *et al.* Effects of AhR ligands on the production of immunoglobulins in purified mouse B cells. *Biomed. Res.* **33(2)**, 67-74 (2012).
3. Wang, K., Li, Y., Jiang, Y.-Z., *et al.* An endogenous aryl hydrocarbon receptor ligand inhibits proliferation and migration of human ovarian cancer cells. *Cancer Lett.* **340(1)**, 63-71 (2013).
4. Nugent, J.F., Shi, G.S., Vistica, B.P., *et al.* ITE, a novel endogenous nontoxic aryl hydrocarbon receptor ligand, efficiently suppresses EAU and T-cell-mediated immunity. *Invest. Ophthalmol. Vis. Sci.* **54(12)**, 7463-7469 (2013).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

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