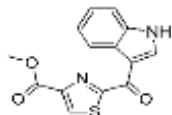


PRODUCT: ITE

ALTERNATE NAME: 2-(1*H*-Indol-3-ylcarbonyl)-4-thiazolecarboxylic acid methyl ester; Aryl hydrocarbon receptor ligand

CATALOG #: B1579-5, 25

AMOUNT: 5 mg, 25 mg

STRUCTURE:

MOLECULAR FORMULA: C₁₄H₁₀N₂O₃S

MOLECULAR WEIGHT: 286.3

CAS NUMBER: 448906-42-1

APPEARANCE: Yellow solid

SOLUBILITY: DMSO (>25 mg/ml)

PURITY: ≥98% by HPLC

STORAGE: Store at -20 °C. Protect from air and light

DESCRIPTION: ITE is an endogenous aryl hydrocarbon receptor (AhR) agonist (K_i = 3 nM). It enhances differentiation of cancer stem-like cells detected by the decrease of sphere formation and proliferation from glioblastoma cells U87. Mechanically, ITE bound AhR inhibits transcription of OCT4, an inducer of pluripotent stem cells, through direct binding to OCT4 promoter. As a consequence, ITE treatment significantly represses the tumor formation in xenograft model using injection of U87 cells.

REFERENCES: Wang, K., *et al.* (2013). *Cancer Lett.* **340**, 63-71.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

A37 (**B1577**)

BRD7116 (**B1578**)

Galieallactone (**Cat. No. 2623-100, 500**)

ITE (**B1579**)

ML243 (**Cat. No. 2515-5,25**)

Cancer Cell Stemness Inhibitor, BBI608 (**Cat. No. 2476-5,25**)

SC-26196 (**B1580**)

Thioridazine Hydrochloride (**B1581**)

TY-52156 (**B1582**)

Verteporfin (**B1583**)

USAGE: **FOR RESEARCH USE ONLY! Not to be used in humans**