
Product Data Sheet

Product Name: SGA360
 Cat. No.: GC18821

Chemical Properties

Cas. No. 680611-86-3

Chemical Name 3-(2,4-dimethoxyphenyl)-1-(2-propen-1-yl)-7-(trifluoromethyl)-1H-indazole

SMILES C=CCN1N=C(C2=CC=C(OC)C=C2OC)C3=CC=CC(C(F)(F)F)=C31

Formula $C_{19}H_{17}F_3N_2O_2$ M.Wt 362.4

Solubility DMF: 20 mg/ml, DMF:PBS(pH7.2) (1:2): 0.33 mg/ml, DMSO: 10 mg/ml, Ethanol: 2.5 mg/ml
 Storage at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

SGA360 is a selective modulator of the aryl hydrocarbon receptor (AhR), which is a ligand-dependent transcription factor that mediates the toxicity of certain xenobiotics and polycyclic aromatic hydrocarbons. SGA360 competitively binds to AhR (IC₅₀ = 3 μM) and represses serum amyloid A 1 (SAA1) gene expression induced by IL-1β in Huh7 cells. It also reduces inflammation and decreases the mRNA expression of the inflammatory mediators COX-2, IL-6, IL-1β, SAA3, and IL-10 in wild-type, but not AhR knockout, mice in a model of inflammatory ear edema. SGA360 also reduces acute inflammation in murine models of septic shock, gout, and peritonitis when the high-affinity AhR variant is expressed.

Caution: Product has not been fully validated for medical applications. For research use only.

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