
Product Data Sheet

Product Name: MRS1523

Cat. No.: GC14078

Chemical Properties

Cas. No. 212329-37-8

Chemical Name 6-ethyl-5-[(ethylthio)carbonyl]-2-phenyl-4-propyl-3-pyridinecarboxylic acid propyl ester

SMILES CCCOC(C1=C(CCC)C(C(SCC)=O)=C(CC)N=C1C2=CC=CC=C2)=O

Formula $C_{23}H_{29}NO_3S$ M.Wt 399.5

Solubility $\leq 50\text{mg/ml}$ in DMSO; 50mg/ml in dimethyl formamide Storage Store 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

$K_i = 18.9\text{ nM}$ for human adenosine A3 receptor

$K_i = 113\text{ nM}$ for rat adenosine A3 receptor

MRS1523 is a selective adenosine A3 receptor (A3R) antagonist. A3R is strongly overexpressed in cancer cell lines and cancer tissues. The activation of the A3R is related to several second messenger systems which are for signaling pathways including asthmatic, inflammatory, and ischemic responses.

In vitro: MRS1523 reversed the increase in mRNA expression in B16-F10 Melanoma Cells. Also, MRS1523 antagonized the modulation in the expression level of the proteins, which indicated that adenosine A3R mediated the responses [1].

Reference:

[1]. Madi, L., Rosenberg-Haggen, B., Nyska, A., & Korenstein, R. Enhancing pigmentation

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

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via activation of A3 adenosine receptors in B16 melanoma cells and in human skin explants. *Experimental Dermatology*. 2012; 22(1): 74-77.

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