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**Product Data Sheet**

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Product Name: ML 3403  
Cat. No.: GC50067

**Chemical Properties**

Cas. No. 549505-65-9

SMILES FC(C=C3)=CC=C3C(N=C(SC)N2)=C2C1=CC=NC(NC(C)C4=CC=CC=C4)=C1

Formula C<sub>23</sub>H<sub>21</sub>FN<sub>4</sub>S M.Wt 404.5

Solubility Soluble in DMSO 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**

p38 MAPK inhibitor (IC<sub>50</sub> = 0.38 μM). Inhibits the release of IL-1β and TNF-α in a peripheral blood mononuclear cell (PBMC) assay (IC<sub>50</sub> values are 0.039 and 0.16 μM respectively).

Laufer et al (2003) Novel substituted pyridinyl imidazoles as potent anticytokine agents with low activity against hepatic cytochrome P450 enzymes. J.Med.Chem. 46 3230 PMID:12852754 |Kammerer et al (2007) Pharmacokinetics of ML3403 ({4-[5-(4-fluorophenyl)-2-methylsulfanyl-3H-imidazol-4-yl]-pyridin-2-yl}-(1-phenylethyl)-amine), a 4-pyridinylimidazole-type p38 mitogen-activated protein kinase inhibitor. Drug Metab.Dispos. 35 875 PMID:17344341

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

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