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Produktinformation

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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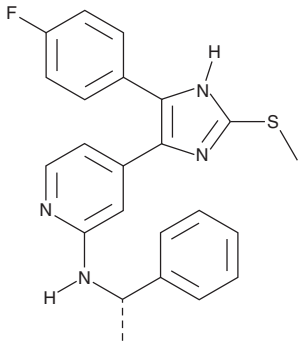
PRODUCT INFORMATION

(S)-p38 MAPK Inhibitor III

Item No. 19696

CAS Registry No.:	581098-48-8
Formal Name:	4-[5-(4-fluorophenyl)-2-(methylthio)-1H-imidazol-4-yl]-N-[(1S)-1-phenylethyl]-2-pyridinamine
Synonyms:	(S)-p38 MAP Kinase Inhibitor III, (S)-p38 Mitogen-activated Protein Kinase Inhibitor III
MF:	$C_{23}H_{21}FN_4S$
FW:	404.5
Purity:	≥98%
UV/Vis.:	λ_{max}: 253, 304 nm
Supplied as:	A crystalline 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

(S)-p38 MAPK inhibitor III is supplied as a crystalline solid. A stock solution may be made by dissolving the (S)-p38 MAPK inhibitor III in the solvent of choice. (S)-p38 MAPK inhibitor III is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of (S)-p38 MAPK inhibitor III in these solvents is approximately 30, 12, and 20 mg/ml, respectively.

(S)-p38 MAPK inhibitor III is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, (S)-p38 MAPK inhibitor III should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. (S)-p38 MAPK inhibitor III has a solubility of approximately 0.33 mg/ml in a 1:2 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

(S)-p38 MAPK inhibitor III is a methylsulfanylimidazole that inhibits p38 MAP kinase (IC_{50} = 0.90 µM *in vitro*).[1] It is cell-permeable, potently blocking the release of TNF-α and IL-1β from human peripheral blood mononuclear cells (IC_{50}s = 0.37 and 0.044 µM, respectively).[1]

Reference

1. Laufer, S.A., Wagner, G.K., Kotschenreuther, D.A., *et al.* Novel substituted pyridinyl imidazoles as potent anticytokine agents with low activity against hepatic cytochrome P450 enzymes. *J. Med. Chem.* **46(15)**, 3230-3244 (2003).

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