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## DATASHEET

RWJ 67657

### Product overview

|                          |                           |
|--------------------------|---------------------------|
| <b>Name</b>              | RWJ 67657                 |
| <b>Cat No</b>            | HB1300                    |
| <b>Biological action</b> | Inhibitor                 |
| <b>Purity</b>            | >98%                      |
| <b>Description</b>       | Potent p38 MAPK inhibitor |

### Biological Data

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Biological description</b> | Potent p38 MAPK inhibitor (IC <sub>50</sub> values are 1.0 and 11 $\mu$ M for p38 $\alpha$ and $\beta$ subunits respectively). Exhibits no activity at p38 $\gamma$ or $\delta$ subunits. Potently inhibits TNF $\alpha$ , IL-1 $\beta$ and IL-8 production (IC <sub>50</sub> values are 15, 11 and 30 nM respectively). Also inhibits IL-6, IL-8, MMP3, COX-2 mRNA and HIV replication. Displays anti-inflammatory and cardioprotective properties. Approx 10-fold more potent than SB 203580. |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Solubility & Handling

|                             |                                                                                                                               |
|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage instructions</b> | Room temperature                                                                                                              |
| <b>Solubility overview</b>  | Soluble in DMSO (100mM) or ethanol (50mM)                                                                                     |
| <b>Important</b>            | This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use. |

### Chemical Data

|                           |                                                                                          |
|---------------------------|------------------------------------------------------------------------------------------|
| <b>Chemical name</b>      | 4-[4-(4-Fluorophenyl)-1-(3-phenylpropyl)-5-(4-pyridinyl)-1H-imidazol-2-yl]-3-butyne-1-ol |
| <b>Molecular Weight</b>   | 425.5                                                                                    |
| <b>Chemical structure</b> |                                                                                          |
| <b>Molecular Formula</b>  | C <sub>27</sub> H <sub>24</sub> FN <sub>3</sub> O                                        |
| <b>CAS Number</b>         | 215303-72-3                                                                              |
| <b>PubChem identifier</b> | 3008319                                                                                  |
| <b>SMILES</b>             | FC(C=C4)=CC=C4C(N=C(C#CCCCO)N2CCCC3=CC=CC=C3)=C2C1=CC=NC=C1                              |
| <b>InChiKey</b>           | QSUSKMBNZQHHPA-UHFFFAOYSA-N                                                              |

### References

**Strong inhibition of TNF-alpha production and inhibition of IL-8 and COX-2 mRNA expression in monocyte-derived macrophages by RWJ 67657, a p38 mitogen-activated protein kinase (MAPK) inhibitor.**

Westra J *et al* (2004) Arthritis Res Ther 6(4)

**PubMedID** [15225374](#)

**RWJ 67657, a potent, orally active inhibitor of p38 mitogen-activated protein kinase.**

Wadsworth SA *et al* (1999) J Pharmacol Exp Ther 291(2)

**PubMedID** [10525088](#)

**p38 mitogen-activated protein kinase inhibition improves cardiac function and attenuates left ventricular remodeling following myocardial infarction in the rat.**

See F *et al* (2004) J Am Coll Cardiol 44(8)

**PubMedID** [15489104](#)

**Suppression of HIV-1 viral replication and cellular pathogenesis by a novel p38/JNK kinase inhibitor.**

Muthumani K *et al* (2004) AIDS 18(5)

**PubMedID** [15075508](#)

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