

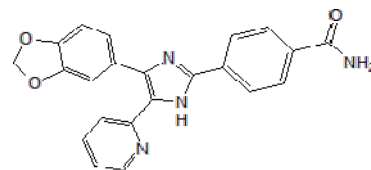
# Certificate of Analysis



## Product Identification

**Catalog number** HB3555  
**Compound name** SB431542  
**Chemical name** 4-[4-(1,3-benzodioxol-5-yl)-5-(2-pyridinyl)-1H-imidazol-2-yl]benzamide  
**Batch number** E0500-8-6  
**Batch molecular formula** C<sub>22</sub>H<sub>16</sub>N<sub>4</sub>O<sub>3</sub>·2.5H<sub>2</sub>O  
**Batch molecular weight** 429.50

## Chemical Structure



Method	QC requirement	QC Result
<b>HPLC</b>	Reverse Phase HPLC shows >98% purity	Meets specification: 100%
<b>NMR</b>	<sup>1</sup> H NMR in DMSO at 400 MHz consistent with structure	Meets specification
<b>Mass spectrum</b>	Electrospray positive analysis consistent with structure	Meets specification
<b>Microanalysis</b>	Elemental analysis is within 0.4% for the batch molecular formula	Meets specification
<b>TLC</b>	TLC analysis in 5% MeOH/DCM shows one spot under uv	Meets specification: R <sub>f</sub> =0.10
<b>Physical appearance</b>	Yellow to pale-yellow solid	Meets specification: Yellow solid
<b>Solubility</b>	Soluble in DMSO (100 mM) and in ethanol (10 mM)	Meets specification

## Biological validation

**Produced by** Richard Patterson

Signature

**Passed by** Huw Davies

Signature

Date

13-02-17

This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.