



Certificate of analysis

Productname: Ibudilast

Cas number: 50847-11-5

Molecular Formula: $C_{14}H_{18}N_2O$

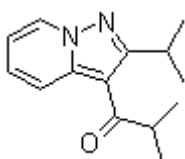
Molecular Weight: 230.31

Date of production: Sep. 25, 2019

Batch No: 20190925

Exp Date: Sep. 24, 2021

Chemical structure:



Items	Specifications	Results
Appearance	White to off-white crystal or crystalline powder	Complies
Identification	NMR HPLC	Complies
Melting range	54~57°C	55.0~56.0°C
Solubility	Freely soluble in methanol, ethanol and diethyl ether, almost insoluble in water	Complies
Related substances	Single impurity $\leq 0.5\%$	0.07%
	Total impurities $\leq 1.0\%$	0.13%
Loss on drying	$\leq 0.5\%$	0.30%
Water	$\leq 0.5\%$	0.20%
Residue on ignition	$\leq 0.1\%$	0.06%
Heavy metals	$\leq 10\text{ppm}$	$< 10\text{ppm}$
Purity	$\geq 99.0\%$	99.87%

Conclusion: It complies with the Enterprise Standard.

Analyst: Zhao

Checker: Liu

Q.C Director: Fang F