

CERTIFICATE OF ANALYSIS

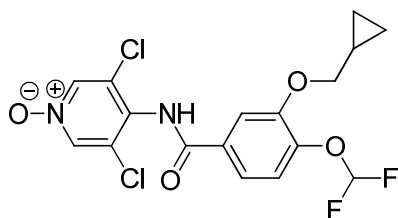
Reference Substance

Date:

Roflumilast Impurity (DP-4)

Batch No.

IUPAC Name: 3, 5-dichloro-4-(3-(cyclopropylmethoxy)-4-(difluoromethoxy) benzamido) pyridine 1-oxide.

Molecular Formula: C₁₇H₁₄Cl₂F₂N₂O₄

Molecular weight: 419.21g/mol

Sr.#	Test	Results	Data ref.
1	Appearance	Off White Solid powder	-----
2	Purity by HPLC	95.14%	Chromatogram attached
3	NMR	Conform	Report attached
4	MASS	Conform	Report attached

Storage condition: Store at 2-8°C, protect from direct sunlight and moisture.

This certificate of analysis is valid for two years from date of manufacturing, provided the substance is stored under suitable conditions.

Manufacturing date:**Retest date:****Document data reference:***Prepared by**Reviewed by**Approved by*