

Certificate of Analysis

Product	AICAR (Acadesine)	CAS No.:	2627-69-2
Product No.:	AR	Molecular Formula	C ₉ H ₁₄ N ₄ O ₅
Chemical Name	5-Aminoimidazole-4-carboxamide-1-β-D-ribofuranoside <i>Small-molecule nucleoside AMPK activator (AICA-ribose); not a peptide</i>		
Molecular Weight	258.23	Quantity	100.0g
Batch No.	AR-29091	Storage Temp.	-20±5°C
Mfg. Date	Oct.12 th , 2026	Retest Date	Oct.12 th , 2028

【ITEMS】		【SPECIFICATIONS】	【RESULTS】
Appearance		White to off-white powder	White to off-white powder
Solubility		Soluble in water (slightly) and DMSO	Conforms
Solution clarity and color		Clear solution	Conforms
Identification	HPLC	The retention time of the principal peak corresponds to that of the reference standard.	Conforms
	Mass spectrum	259.1±0.5 ([M+H] ⁺)	259.1
	IR	Consistent with the reference structure.	Conforms
Related substances (HPLC)		Largest single impurity: NMT 0.5%	0.09%
		Total impurities: NMT 1.0%	0.37%
Assay (HPLC)		NLT 98.0% (on anhydrous basis)	99.7%
Residual solvent		Ethanol NMT 5000ppm	350ppm
		Methanol NMT 3000ppm	N.D
Water content (KF)		NMT 1.0%	0.3%
Heavy metals		NMT 10ppm	Conforms
Residue on ignition (sulfated ash)		NMT 0.1%	0.07%
Bacterial endotoxins		NMT 5 EU/mg	1.4EU/mg
Microbial Limits		Total aerobic bacteria ≤100cfu/g	Conforms
		Mould & Yeast ≤10cfu/g	Conforms
		Escherichia coli: absence in 1g	absent
Storage		Keep in tight container, protect from light, store at a temperature of -20±5°C.	
Report		Date: Jun. 23 th , 2026	
Reviewer		Date: Jun. 23 th , 2026	
Conclusion: This batch of product complies with Enterprise Standard.			

It is only supplied as chemical product.
It is only for R&D use.