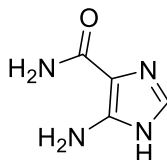


5-Aminoimidazole-4-carboxamide

Code No.: **BIA-A2590**

Pack sizes: **5 mg, 25 mg**



Synonyms :

Specifications

CAS #	: 360-97-4
Molecular Formula	: C ₄ H ₆ N ₄ O
Molecular Weight	: 126.1
Source	: Synthetic
Appearance	: Grey solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol or DMSO

Application Notes

5-Aminoimidazole-4-carboxamide is a ubiquitous metabolite and an intermediate in purine biosynthesis of compounds such as acadesine and gancyclovir. Derivatives of 5-aminoimidazole-4-carboxamide have broad biological effects as antitumor, antiviral, antidiabetic and anti-inflammatory agents. 5-Aminoimidazole-4-carboxamide derivatives activate AMP kinase.

References

1. Controls of nuclear factor-kappa B signaling activity by 5'-AMP-activated protein kinase activation With examples in human bladder cancer cells. Choi B-H. et al. Int Neurorol J 2016, 20, 182.
2. AMP-activated protein kinase and type 2 diabetes. Musi N. et al. Curr Med Chem 2006, 13, 583.
3. The AMPK agonist 5-aminoimidazole-4-carboxamide ribonucleotide (AICAR), but not metformin, prevents inflammation-associated cachectic muscle wasting. Hall D.T. et al. EMBO Mol Med 2018, 10, e8307.