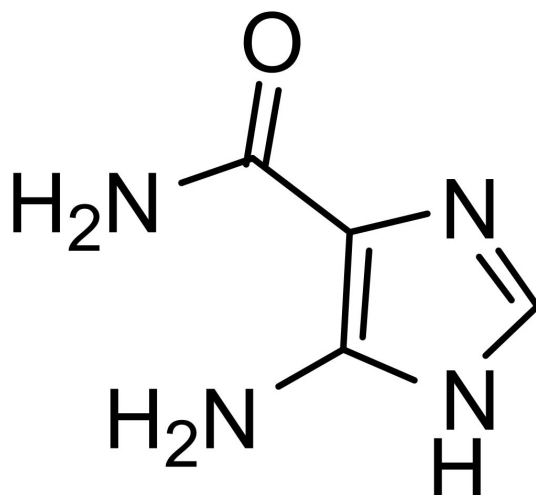


Aminoimidazole-4-carboxamide, 5-

Code No.: BIA-A2590

Pack sizes.: 5mg, 25mg



Synonyms:

-

Specifications

CAS #	: 360-97-4
Molecular Formula	: C4H6N4O
Molecular Weight	: 126.1
Source	: -
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 metabolite existing in all living organisms and an intermediate in purine biosynthesis, such as adenosine 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. The biological activity of 5-amino-4-carboxamide itself is not reported.

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 Neurourol 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.