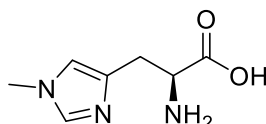


## 1-Methyl-L-histidine

Code No.: **BIA-H2173**

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



Synonyms : NSC 524367, (2S)-2-Amino-3-(1-methyl-1H-imidazol-4-yl)propanoic acid, 1-Methylhistidine, 1-N-Methyl-L-histidine

### Specifications

CAS #	: <b>332-80-9</b>
Molecular Formula	: <b>C<sub>7</sub>H<sub>11</sub>N<sub>3</sub>O<sub>2</sub></b>
Molecular Weight	: <b>169.18</b>
Source	: <b>Synthetic</b>
Appearance	: <b>White solid</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in methanol or DMSO</b>

### Application Notes

1-Methyl-L-histidine is an endogenous metabolite of some animal species, excluding humans. 1-Methyl-L-histidine is an L-histidine derivative substituted by a methyl group at position 1 on the imidazole ring (N(tele)). 1-Methylhistidine is a breakdown product of animal protein that can be used as a urinary marker for meat consumption and to distinguish 3-methyl-L-histidine from endogenous vs. dietary sources.

### References

1. Histidine in health and disease: Metabolism, physiological importance, and use as a supplement. Holecek M. *Nutrients* 2020, 12, 848.
2. Urinary excretion of 1-methylhistidine: A qualitative indicator of exogenous 3-methylhistidine and intake of meats from various sources. Sjolín J. et al. *Metabolism* 1987, 36, 1175.