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Produktinformation



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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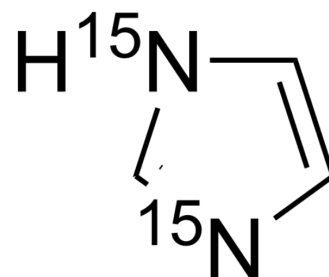
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Imidazole-¹⁵N₂

Cat. No.:	HY-W699983
CAS No.:	74362-46-2
Molecular Formula:	C ₃ H ₄ ¹⁵ N ₂
Molecular Weight:	70.06
Target:	Isotope-Labeled Compounds; Thrombopoietin Receptor; Ser/Thr Protease
Pathway:	Others; Immunology/Inflammation; Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Imidazole-¹⁵N₂ (Glyoxaline-¹⁵N₂) is ¹⁵N labeled Imidazole. Imidazole (Glyoxaline; 1,3-Diaza-2,4-cyclopentadiene) is a heterocyclic aromatic compound. Imidazole bearing molecules have been used as corrosion, acetylcholinesterase (AChEI) and xanthine oxidase (XO) inhibitors, performing biological activities such as antifungal, antituberculosis, anti-inflammatory, antioxidant, and analgesic, amongst many others. Imidazole inhibits the enzymatic conversion of the endoperoxides (PGG₂ and PGH₂) to thromboxane A₂ by platelet microsomes. Imidazole derivatives exhibits inhibition on SARS-CoV-2 3CL^{Pro} enzyme, which is promising for research in the field of Alzheimer's disease, gout, COVID-19 and thrombo-embolic disease^{[1][2][3][4]}.

REFERENCES

- [1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. *Ann Pharmacother*. 2019 Feb;53(2):211-216.
- [2]. Noriega-Irbe E, et al. In vitro and in silico screening of 2, 4, 5-trisubstituted imidazole derivatives as potential xanthine oxidase and acetylcholinesterase inhibitors, antioxidant, and antiproliferative agents[J]. *Applied Sciences*, 2020, 10(8): 2889.
- [3]. Moncada S, et al. Imidazole: a selective inhibitor of thromboxane synthetase[J]. *Prostaglandins*. 1977 Apr;13(4):611-8.
- [4]. Ashish M. Kanhed, et al. Design and synthesis of diphenyl-1H-imidazole analogs targeting Mpro/3CLpro enzyme of SARS-CoV-2. *Medicinal Chemistry Research*, 2024 June 26, 1554-8120.

Caution: Product has not been fully validated for medical applications. For research use only.

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