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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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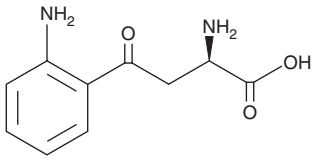
PRODUCT INFORMATION

D-Kynurenine

Item No. 28254

CAS Registry No.:	13441-51-5
Formal Name:	αR,2-diamino-γ-oxo-benzenebutanoic acid
MF:	$C_{10}H_{12}N_2O_3$
FW:	208.2
Purity:	≥98%
UV/Vis.:	λ_{max}: 228, 257, 370 nm
Supplied as:	A crystalline solid
Storage:	-20°C
Stability:	≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

D-Kynurenine is supplied as a crystalline solid. A stock solution may be made by dissolving the D-kynurenine in the solvent of choice, which should be purged with an inert gas. D-Kynurenine is soluble in the organic solvent 0.5M HCl at a concentration of approximately 50 mg/ml.

Description

D-Kynurenine is an antagonist of hydroxycarboxylic acid receptor 3 HCA_3/GPR109B (EC_{50} = 2.61 µM in a luciferase reporter assay) and a metabolite of D-tryptophan.[1] It increases levels of intracellular calcium and decreases forskolin-stimulated production of cAMP in CHO cells expressing human HCA_3/GPR109B when used at concentrations of 10 and 100, or 1,000 µM, respectively. D-Kynurenine (10 µM) increases expression of vimentin and decreases expression of E-cadherin in 95D lung cancer cells.[2] It has been used as a substrate in fluorometric assays for D-amino acid oxidase activity.[3,4]

References

1. Irukayama-Tomobe, Y., Tanaka, H., Yokomizo, T., *et al.* Aromatic D-amino acids act as chemoattractant factors for human leukocytes through a G protein-coupled receptor, GPR109B. *Proc. Natl. Acad. Sci. USA* **106(10)**, 3930-3934 (2009).
2. Duan, Z., Li, Y., and Li, L. Promoting epithelial-to-mesenchymal transition by D-kynurenine via activating aryl hydrocarbon receptor. *Mol. Cell. Biochem.* **448(1-2)**, 165-173 (2018).
3. Kozaki, A., Iwasa, S., Hosoda, S., et al. Fluorimetric assay for D-amino acid oxidase activity in rat brain homogenate by using D-kynurenine as a substrate. *Biosci. Trends* **6(5)**, 241-247 (2012).
4. Song, Z., Ogaya, T., Ishii, K., *et al.* Utilization of kynurenic acid produced from D-kynurenine in an *in vitro* assay of D-amino acid oxidase activity. *J. Health Sci.* **56(3)**, 341-346 (2010).

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