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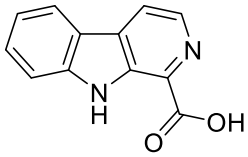
PRODUCT DATA SHEET

β-Carboline 1-carboxylic acid

Code No.: **BIA-C1943**

Pack sizes: **1 mg, 5 mg**



Synonyms : -

Specifications

CAS #	:	**26052-96-0**
Molecular Formula	:	**$C_{12}H_8N_2O_2$**
Molecular Weight	:	**212.2**
Source	:	***Quassia amara***
Appearance	:	**Off-white solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in methanol or DMSO.**

Application Notes

β-Carboline 1-carboxylic acid, isolated from Quassia amara, displays antineuroinflammatory activity in lipopolysaccharide-induced BV2 microglial cells, inhibiting the production of nitric oxide and prostaglandin E2. Derivatives of β-carboline 1-carboxylic acid inhibit mitogen-activated protein kinase 2. β-Carboline 1-carboxylic acid is also formed endogenously from tryptophan.

References

1. Anti-neuroinflammatory activities of indole alkaloids from kanjang (Korean fermented soy source) in lipopolysaccharide-induced BV2 microglial cells. Kim D-C. et al. Food Chem. 2016, 213, 69.
2. Novel tetrahydro-beta-carboline-1-carboxylic acids as inhibitors of mitogen activated protein kinase-activated protein kinase 2 (MK-2). Trujillo J.I. et al. Bioorg Med Chem Lett. 2007, 17, 4657.
3. Tetrahydro-beta-carboline-3-carboxylic acids and contaminants of L-tryptophan. Adachi A. et al. J Chromatogr A. 2000, 881, 501.

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